OIPE
FEB 11 2005
PATENT & TRADEMARK OFFICE

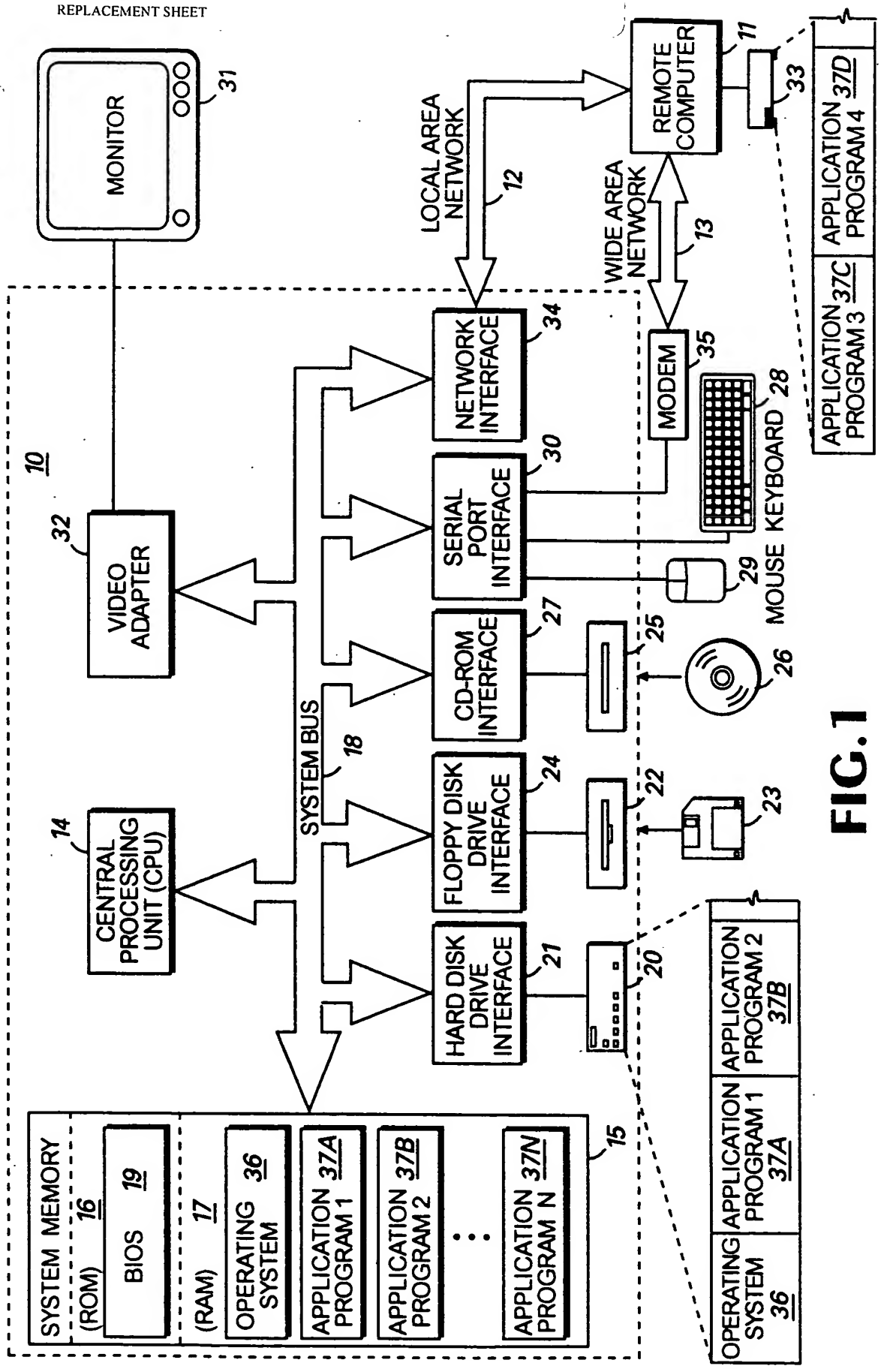


FIG. 1

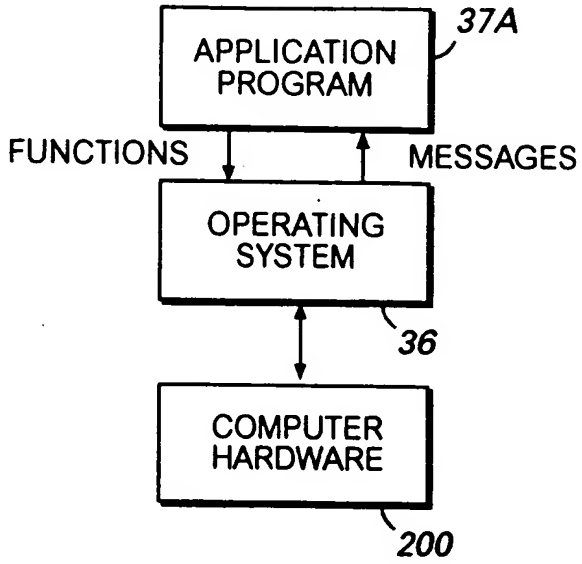

APPLICATION PROGRAM
37A
FUNCTIONS
MESSAGES
OPERATING SYSTEM
36
COMPUTER HARDWARE
200

FIG.2

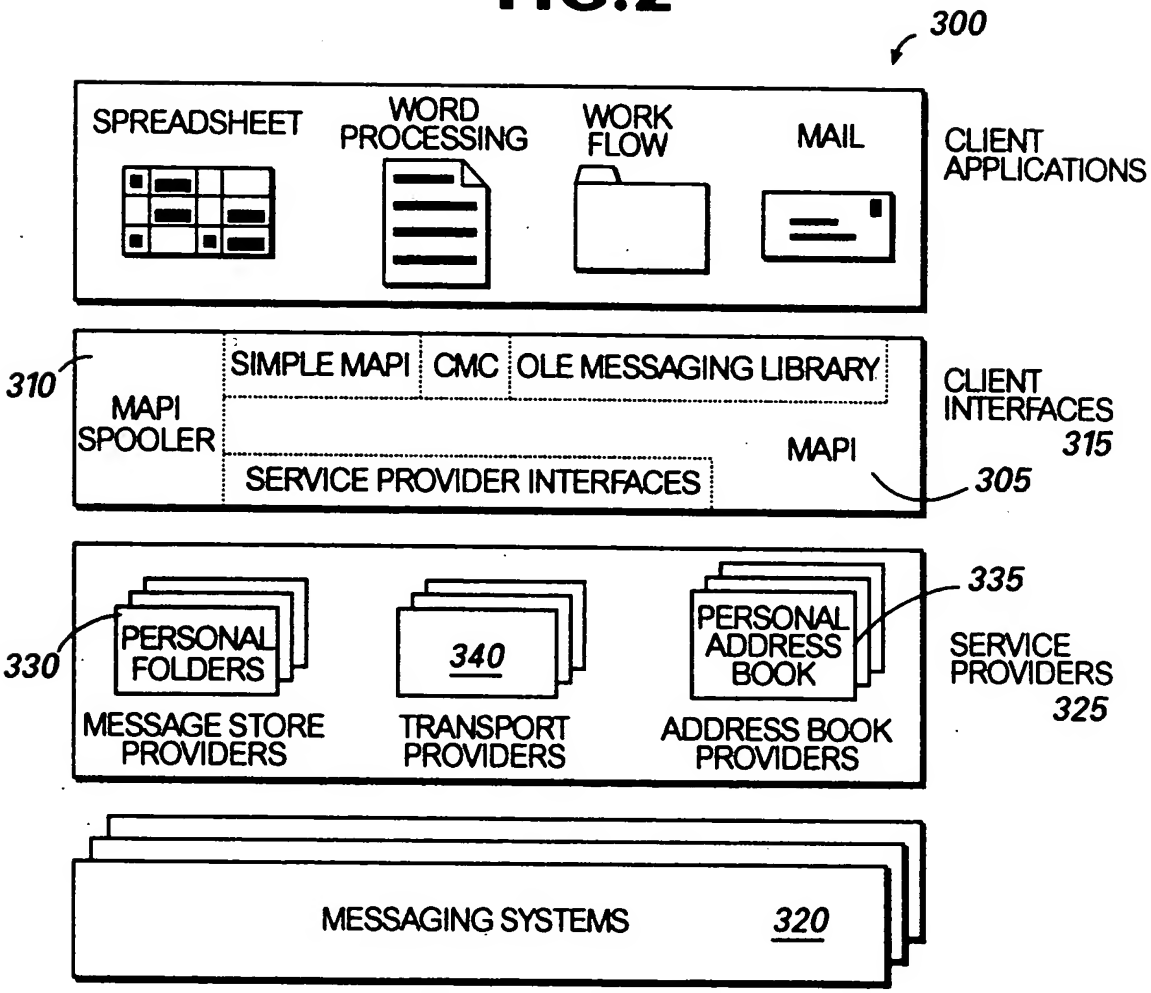

300
SPREADSHEET
WORD PROCESSING
WORK FLOW
MAIL
CLIENT APPLICATIONS
310
MAPI SPOOLER
SIMPLE MAPI
CMC
OLE MESSAGING LIBRARY
SERVICE PROVIDER INTERFACES
MAPI
CLIENT INTERFACES
315
305
330
PERSONAL FOLDERS
340
PERSONAL ADDRESS BOOK
335
SERVICE PROVIDERS
325
MESSAGE STORE PROVIDERS
TRANSPORT PROVIDERS
ADDRESS BOOK PROVIDERS
MESSAGING SYSTEMS
320

FIG.3

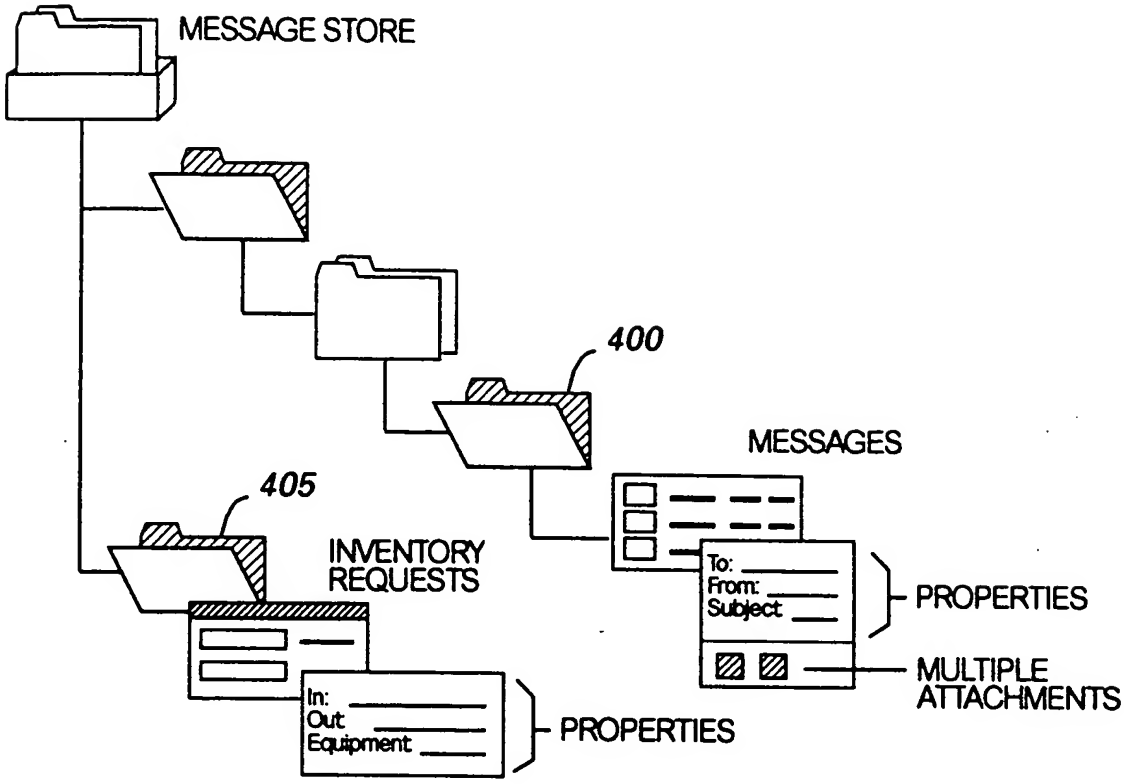

MESSAGE STORE
400
MESSAGES
405
INVENTORY REQUESTS
To:
From:
Subject
PROPERTIES
MULTIPLE ATTACHMENTS
In:
Out
Equipment
PROPERTIES

FIG.4

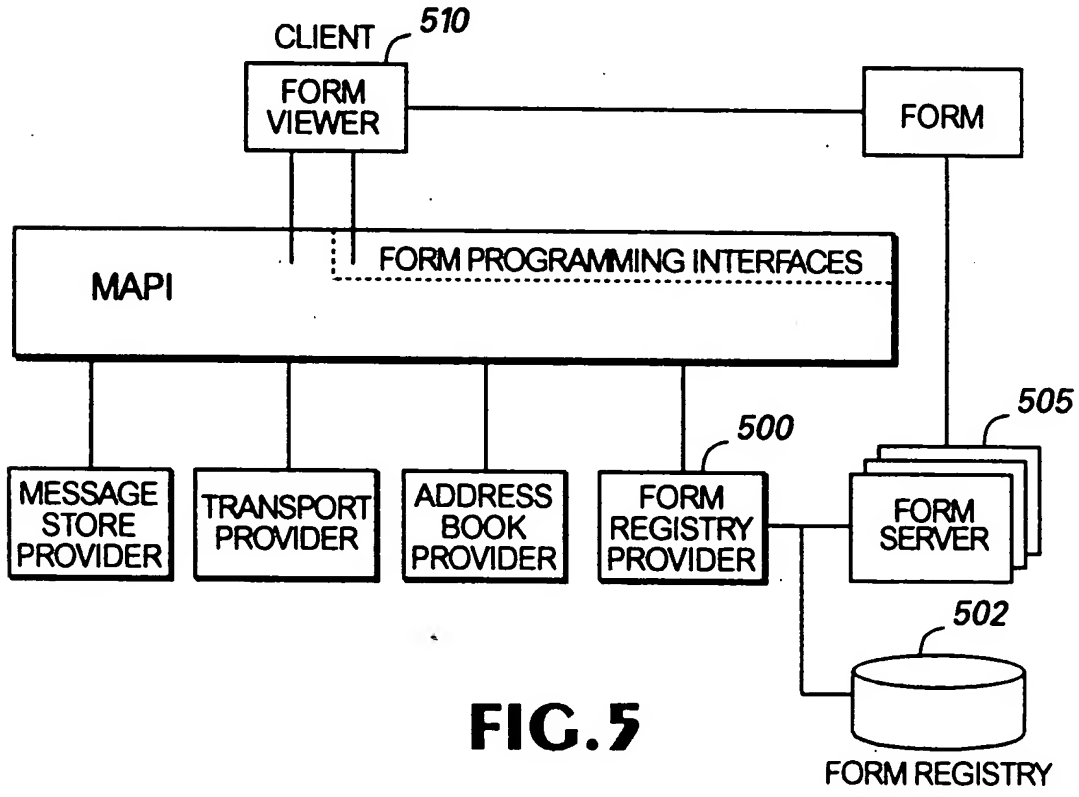

CLIENT
510
FORM VIEWER
FORM
MAPI
FORM PROGRAMMING INTERFACES
505
500
MESSAGE STORE PROVIDER
TRANSPORT PROVIDER
ADDRESS BOOK PROVIDER
FORM REGISTRY PROVIDER
FORM SERVER
502
FORM REGISTRY

FIG.5

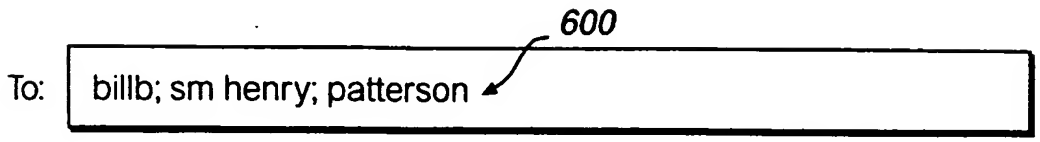


FIG.6a

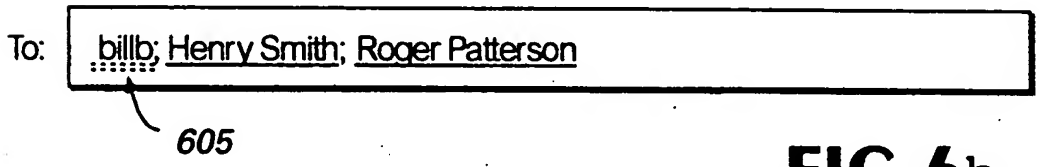


FIG.6b

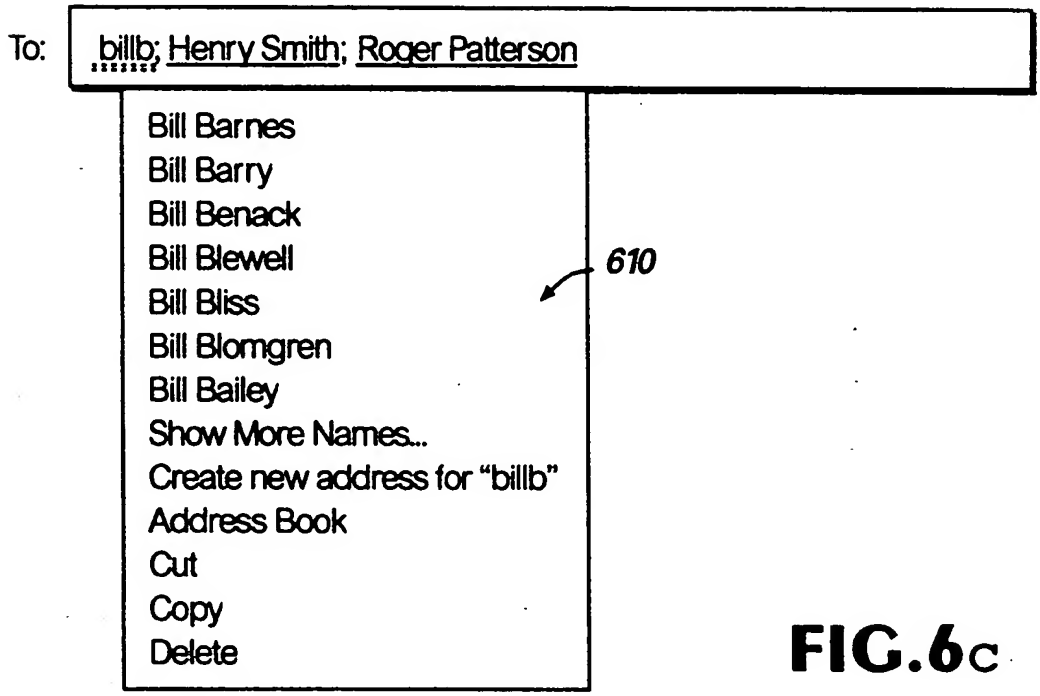


FIG.6c

SCREEN DISPLAYS - ORIGINAL NAME RESOLUTION

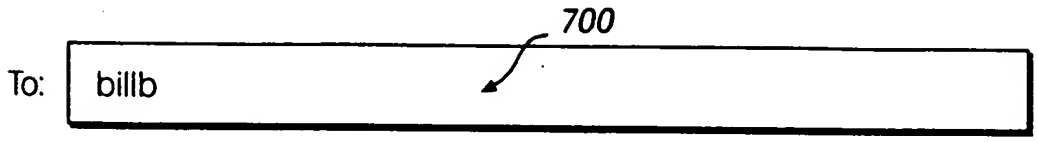


FIG.7a

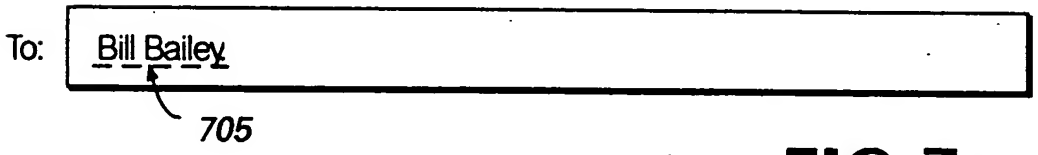


FIG.7b

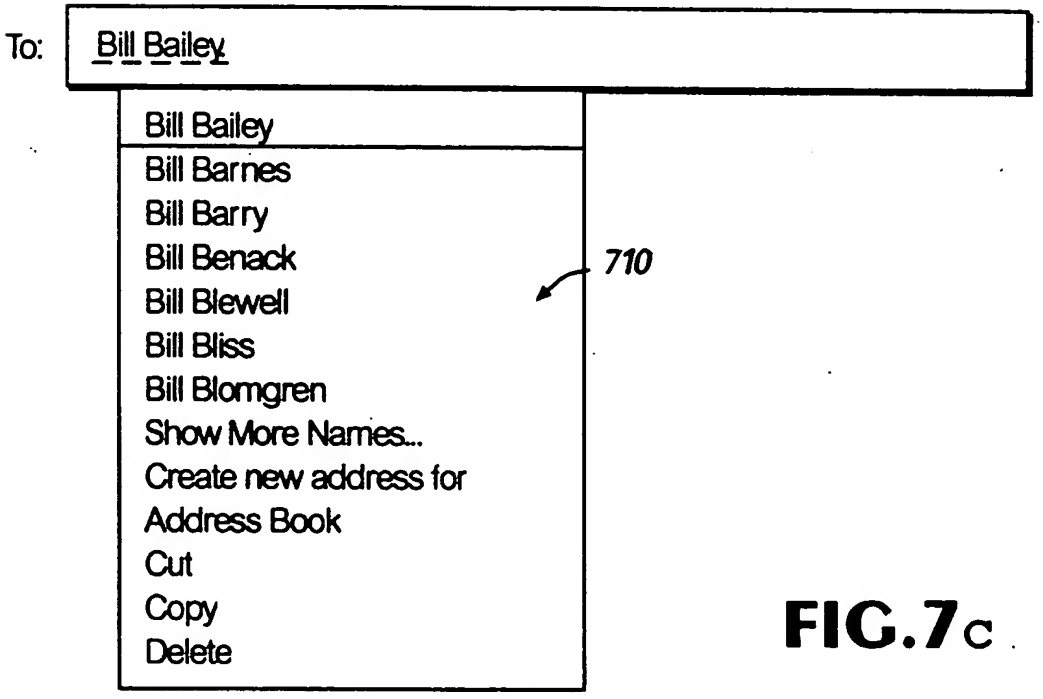
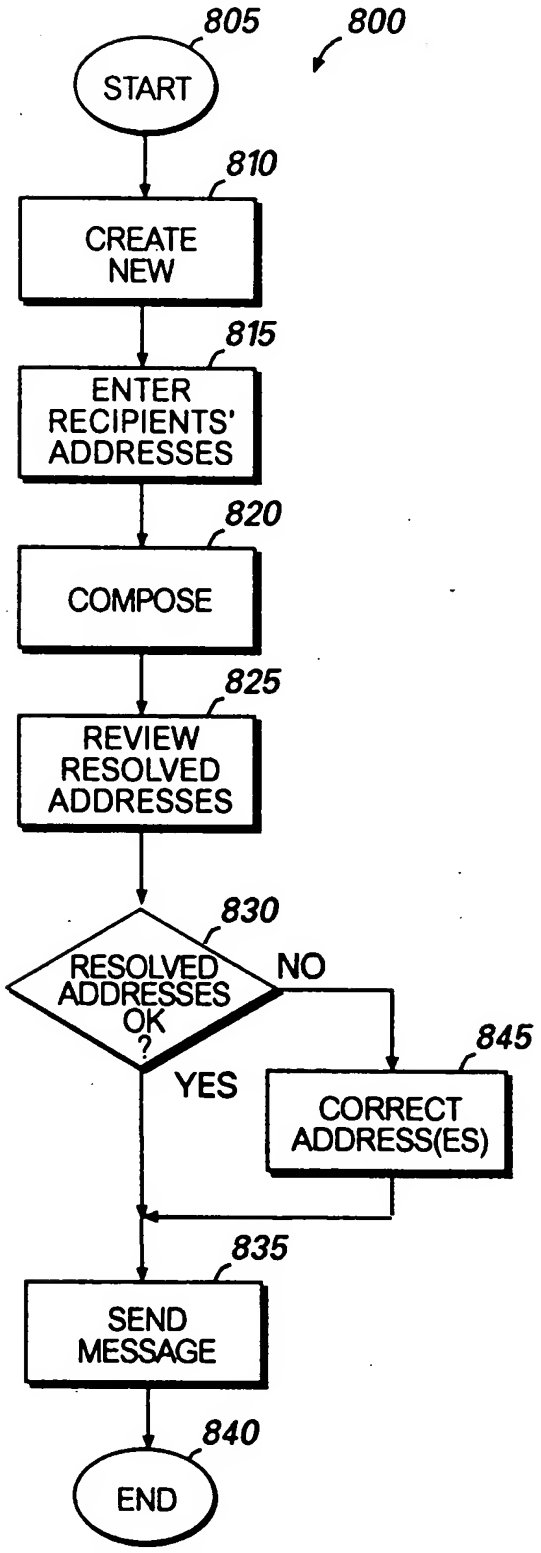


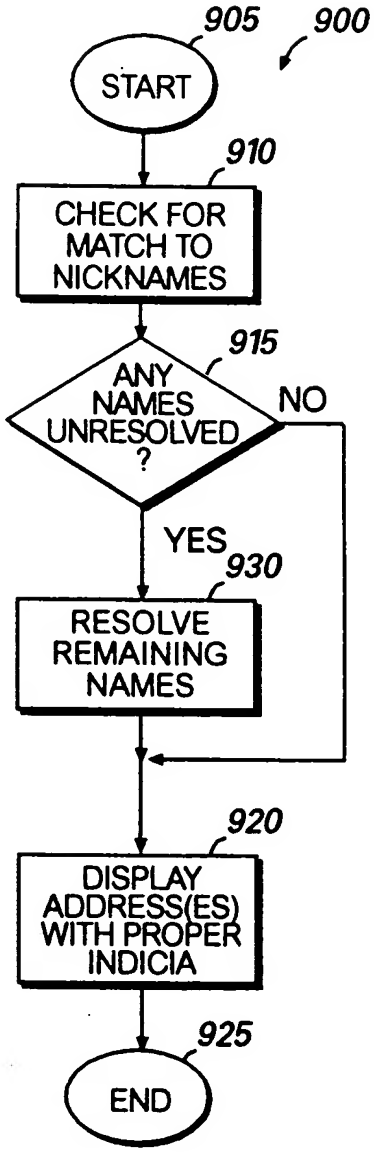
FIG.7c

SCREEN DISPLAYS - NICKNAME RESOLUTION



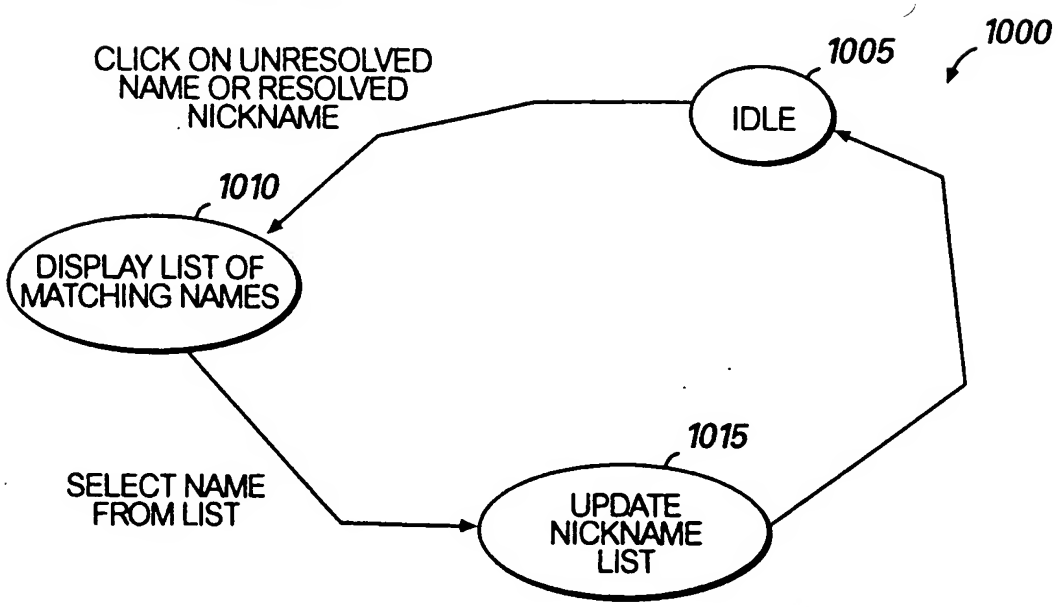
FLOW DIAGRAM - USER'S PERSPECTIVE

FIG.8



FLOW DIAGRAM - NAME RESOLUTION FROM PROGRAM'S PERSPECTIVE

FIG.9



STATE DIAGRAM - NICKNAME RESOLUTION FROM PROGRAM'S PERSPECTIVE

FIG.10

ITEM

PROPERTY TAG	VALUE (DATA)
SENDER	•••
RECIPIENT(S)	•••
SUBJECT	•••
BODY	•••
STATUS (1100)	•••
MESSAGE FLAG (1105)	•••
DUE DATE (1110)	•••

FIG.11

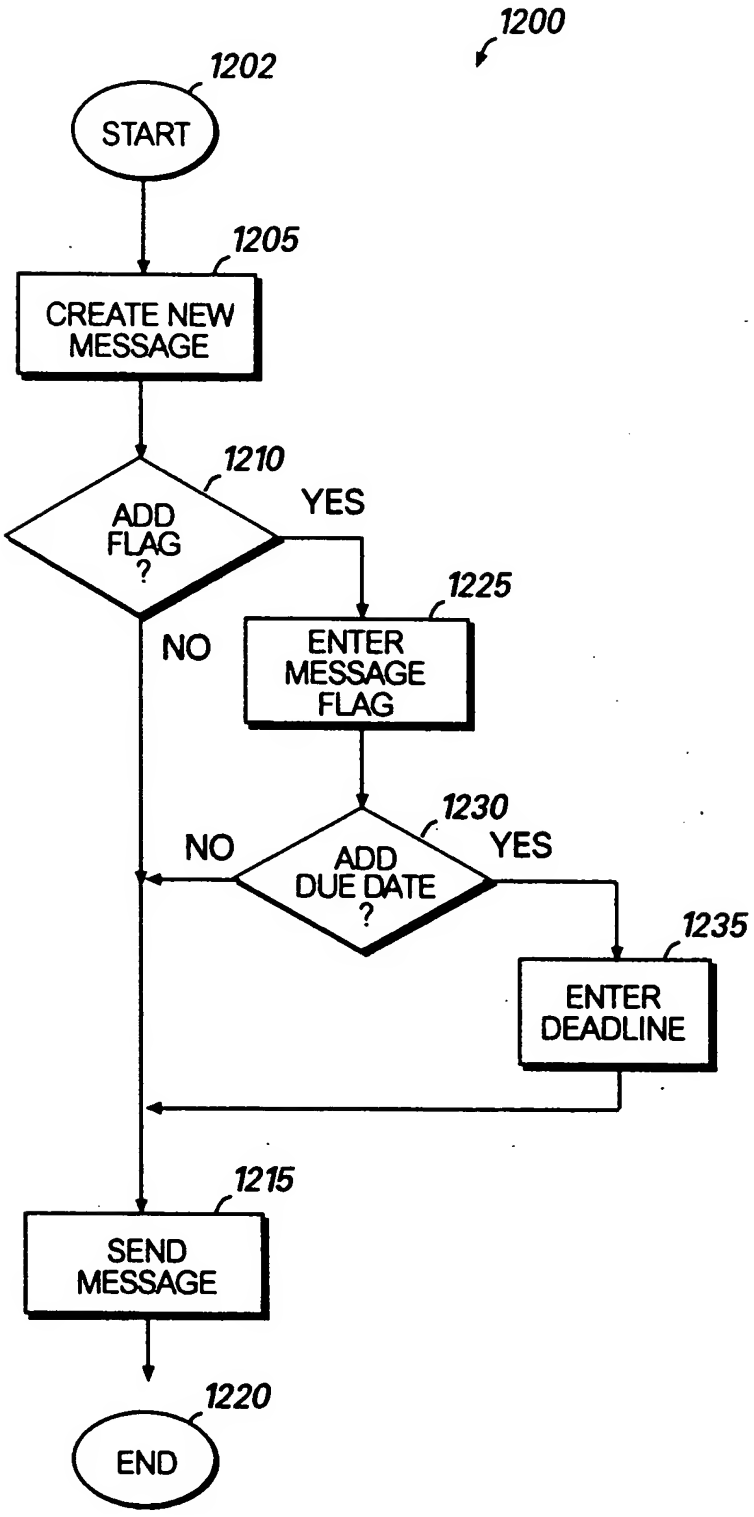

1200
1202
START
1205
CREATE NEW MESSAGE
1210
ADD FLAG ?
YES
NO
1225
ENTER MESSAGE FLAG
1230
ADD DUE DATE ?
NO
YES
1235
ENTER DEADLINE
1215
SEND MESSAGE
1220
END

FIG.12

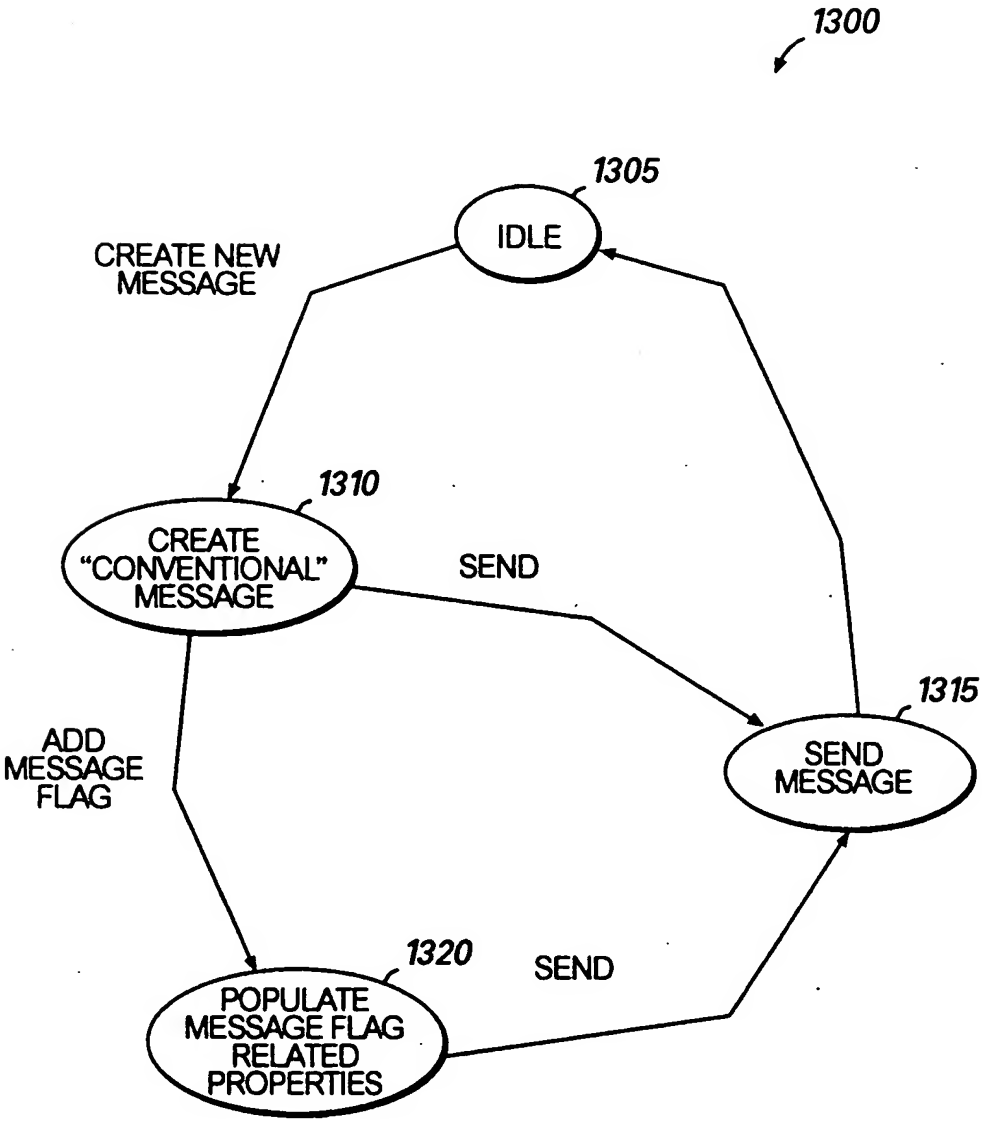

1300
1305
IDLE
CREATE NEW MESSAGE
1310
CREATE "CONVENTIONAL" MESSAGE
SEND
1315
SEND MESSAGE
ADD MESSAGE FLAG
1320
SEND
POPULATE MESSAGE FLAG RELATED PROPERTIES

FIG.13

1400

1405

Read	Status	Encl	From	Subject	Rcvd	Size
N	-		Bob Winters	Windemere Proposal	2/12/96	2K
Y			Drew Lytle	RE: News views	2/12/96	6K
Y			Scott Thurlow	RE:\user\specro	2/12/96	3K
Y		Y	Trio Account	Get on the WWW	2/11/96	12K
Y	√		Becky Kaplan	Module Name question	2/11/96	3K
Y			Brad Thompson	RE: project status	2/10/96	8K
Y			Pam McBain	upcoming release	2/6/96	4K
Y		Y	Scott Gode	Terminology	2/5/96	39K
Y	√		Brian MacDonald	lunch	2/2/96	5K

FIG.14

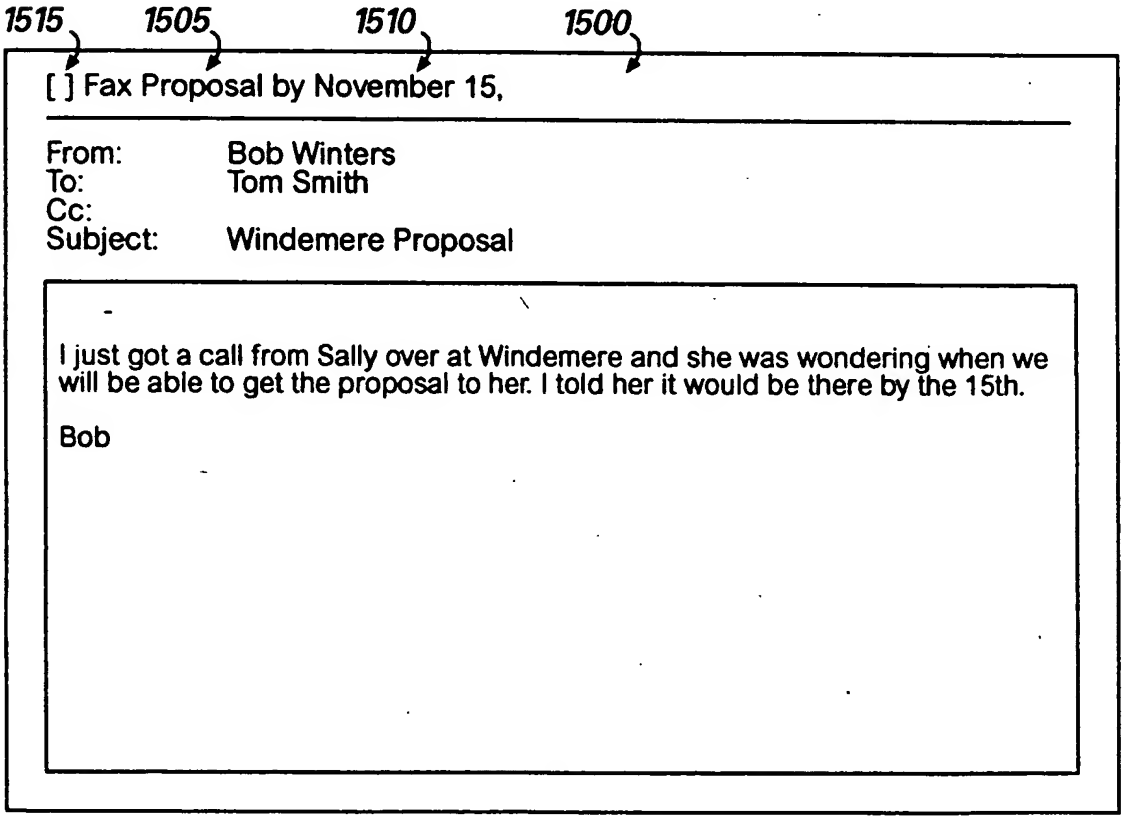


FIG.15

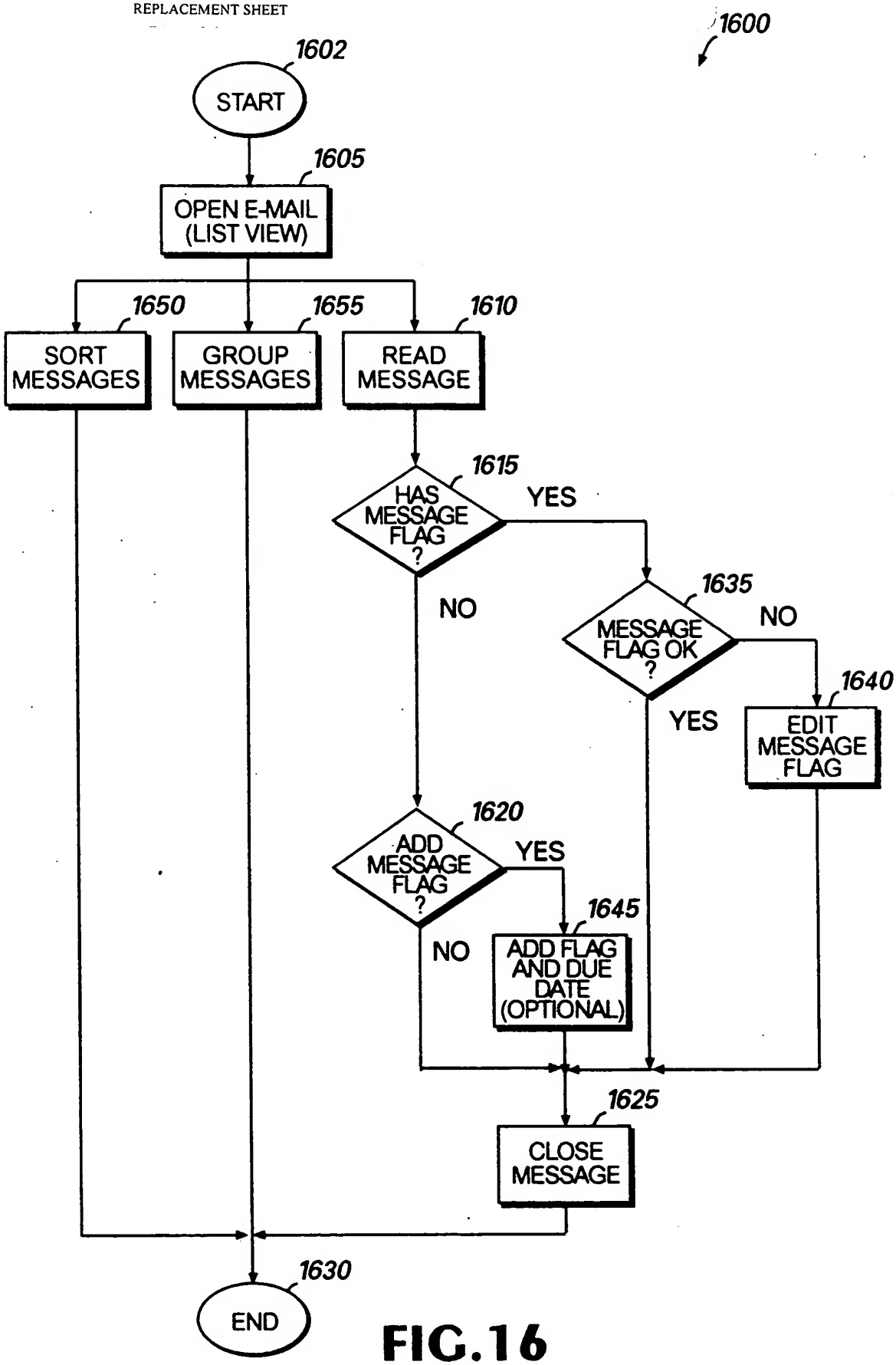

1600
1602
START
1605
OPEN E-MAIL (LIST VIEW)
1650
SORT MESSAGES
1655
GROUP MESSAGES
1610
READ MESSAGE
1615
HAS MESSAGE FLAG ?
YES
NO
1635
MESSAGE FLAG OK ?
NO
YES
1640
EDIT MESSAGE FLAG
1620
ADD MESSAGE FLAG ?
YES
NO
1645
ADD FLAG AND DUE DATE (OPTIONAL)
1625
CLOSE MESSAGE
1630
END

FIG. 16

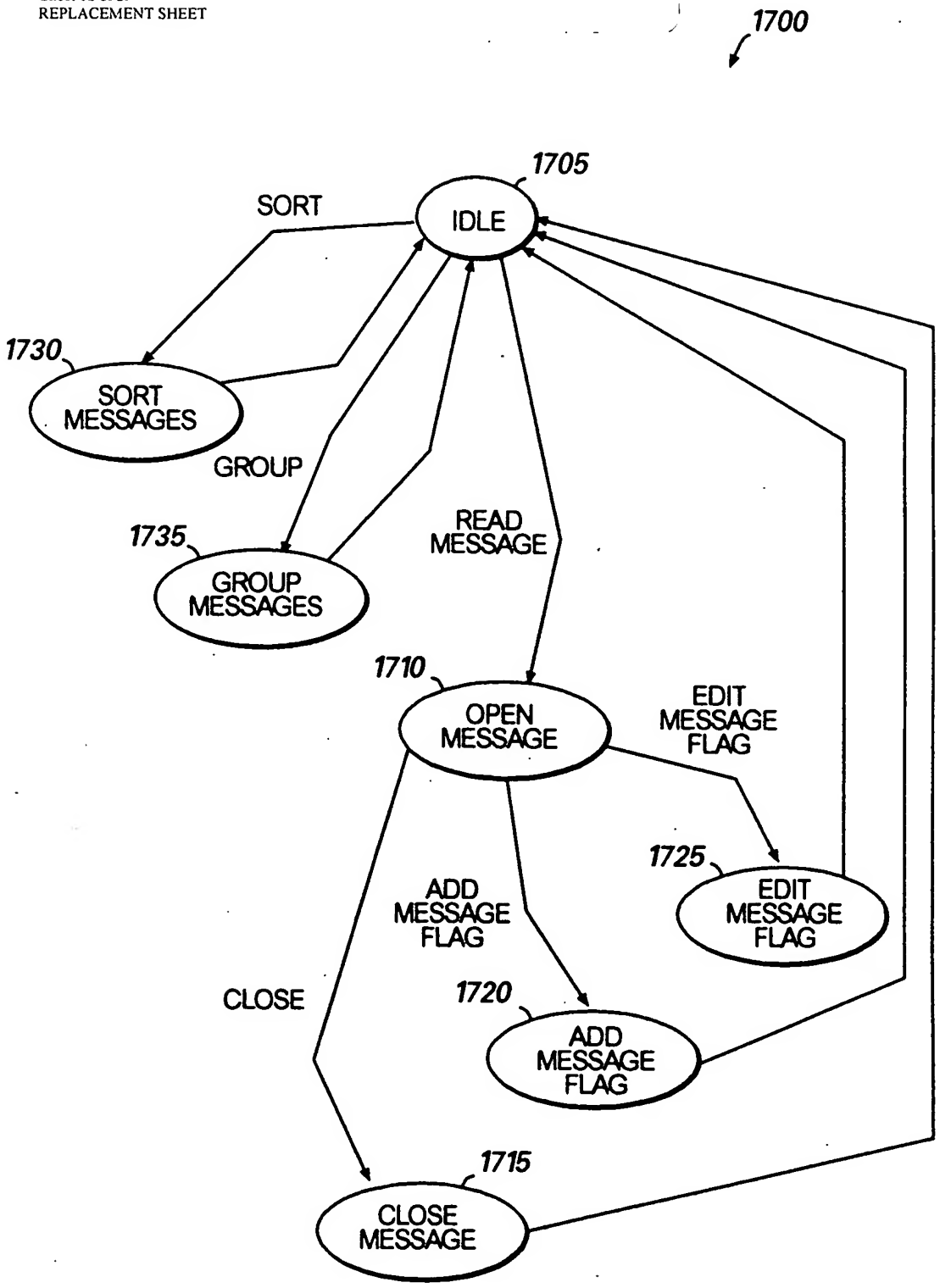

1700
1705
IDLE
SORT
1730
SORT MESSAGES
GROUP
1735
GROUP MESSAGES
READ MESSAGE
1710
OPEN MESSAGE
EDIT MESSAGE FLAG
1725
EDIT MESSAGE FLAG
ADD MESSAGE FLAG
1720
ADD MESSAGE FLAG
CLOSE
1715
CLOSE MESSAGE

FIG.17

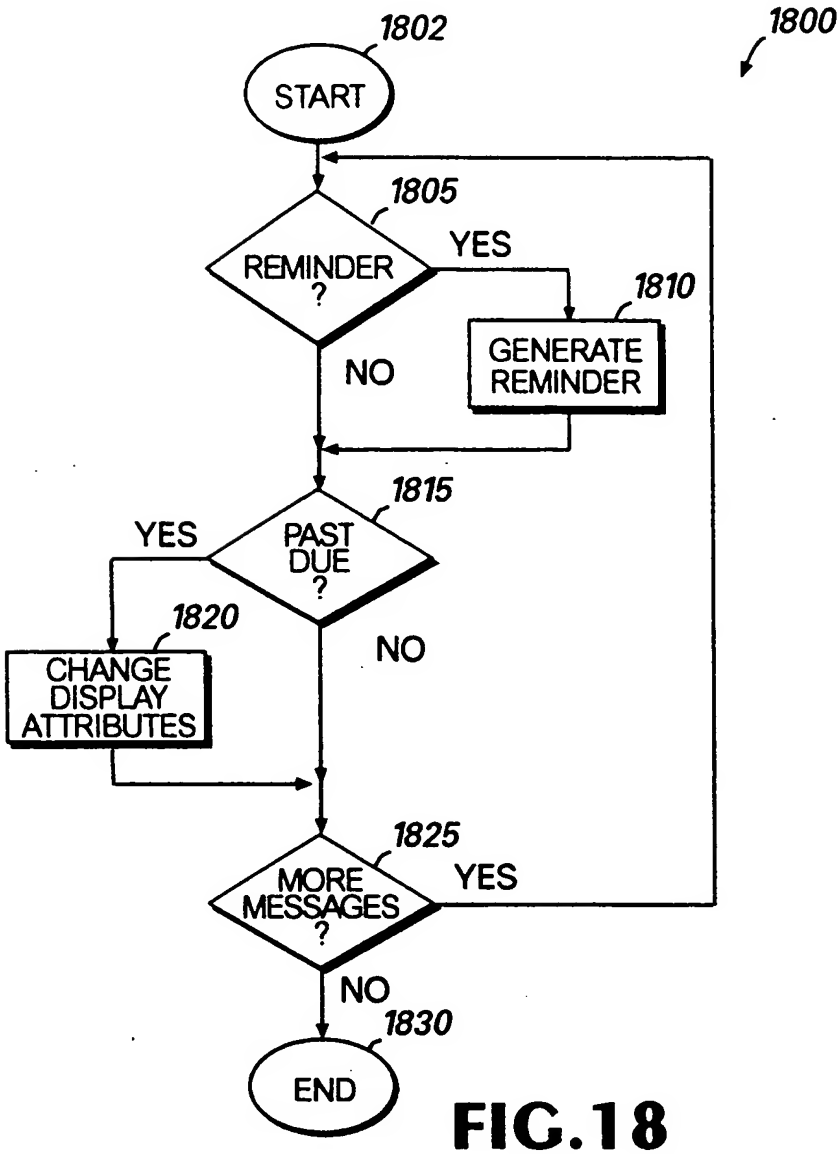

1800
1802
START
1805
REMINDER ?
YES
1810
GENERATE REMINDER
NO
1815
PAST DUE ?
YES
1820
CHANGE DISPLAY ATTRIBUTES
NO
1825
MORE MESSAGES ?
YES
NO
1830
END

FIG.18

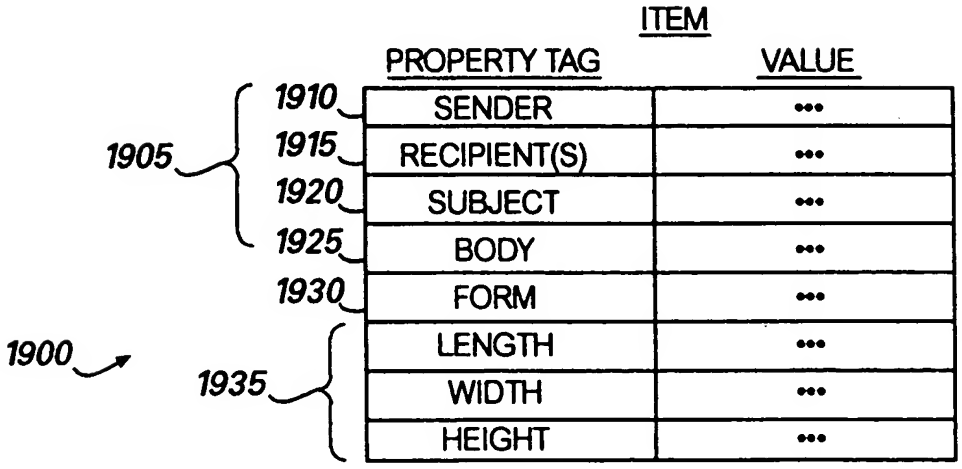

ITEM
PROPERTY TAG
VALUE
1900
1905
1910
SENDER
1915
RECIPIENT(S)
1920
SUBJECT
1925
BODY
1930
FORM
1935
LENGTH
WIDTH
HEIGHT

FIG.19

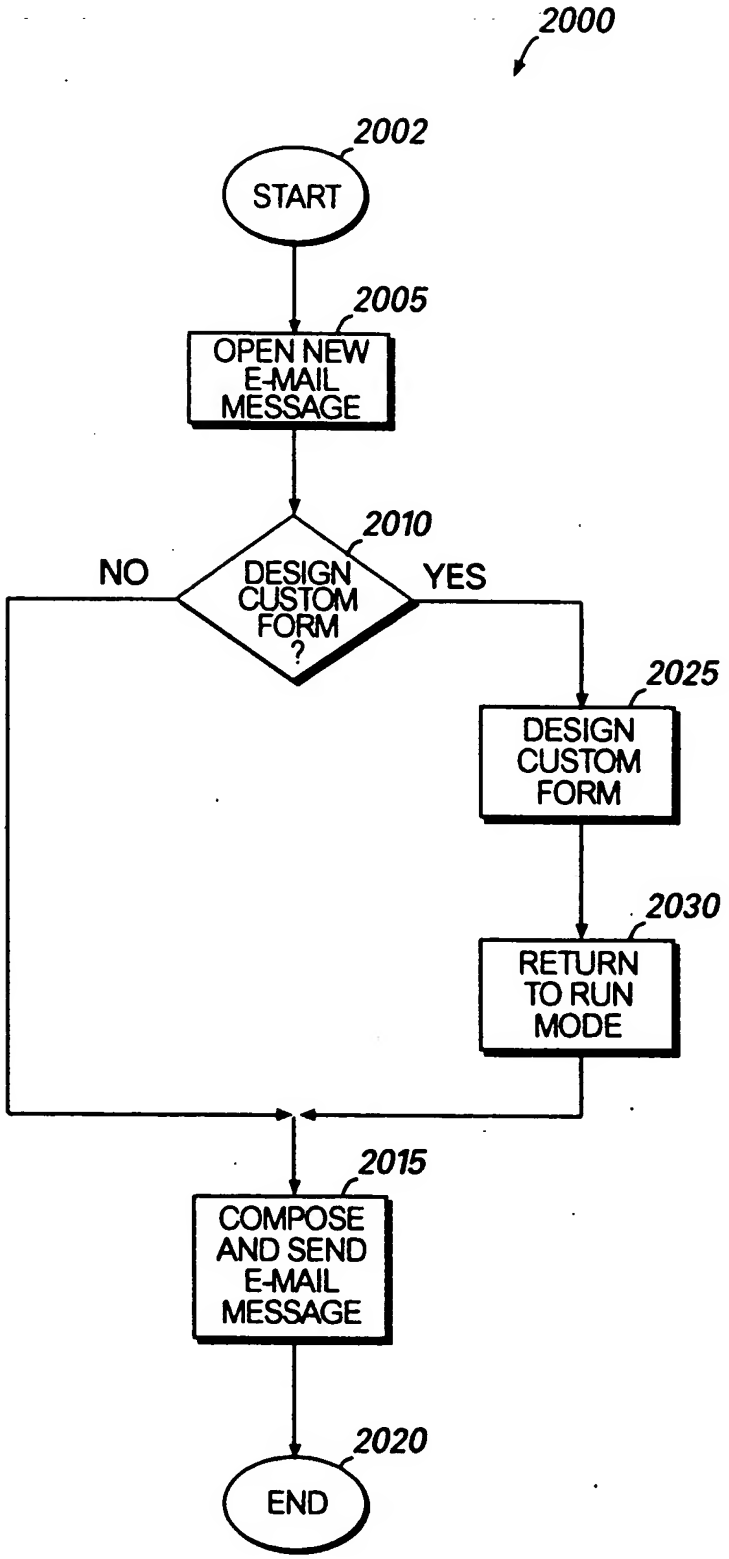

2000
2002
START
2005
OPEN NEW E-MAIL MESSAGE
2010
DESIGN CUSTOM FORM ?
NO
YES
2025
DESIGN CUSTOM FORM
2030
RETURN TO RUN MODE
2015
COMPOSE AND SEND E-MAIL MESSAGE
2020
END

FIG.20

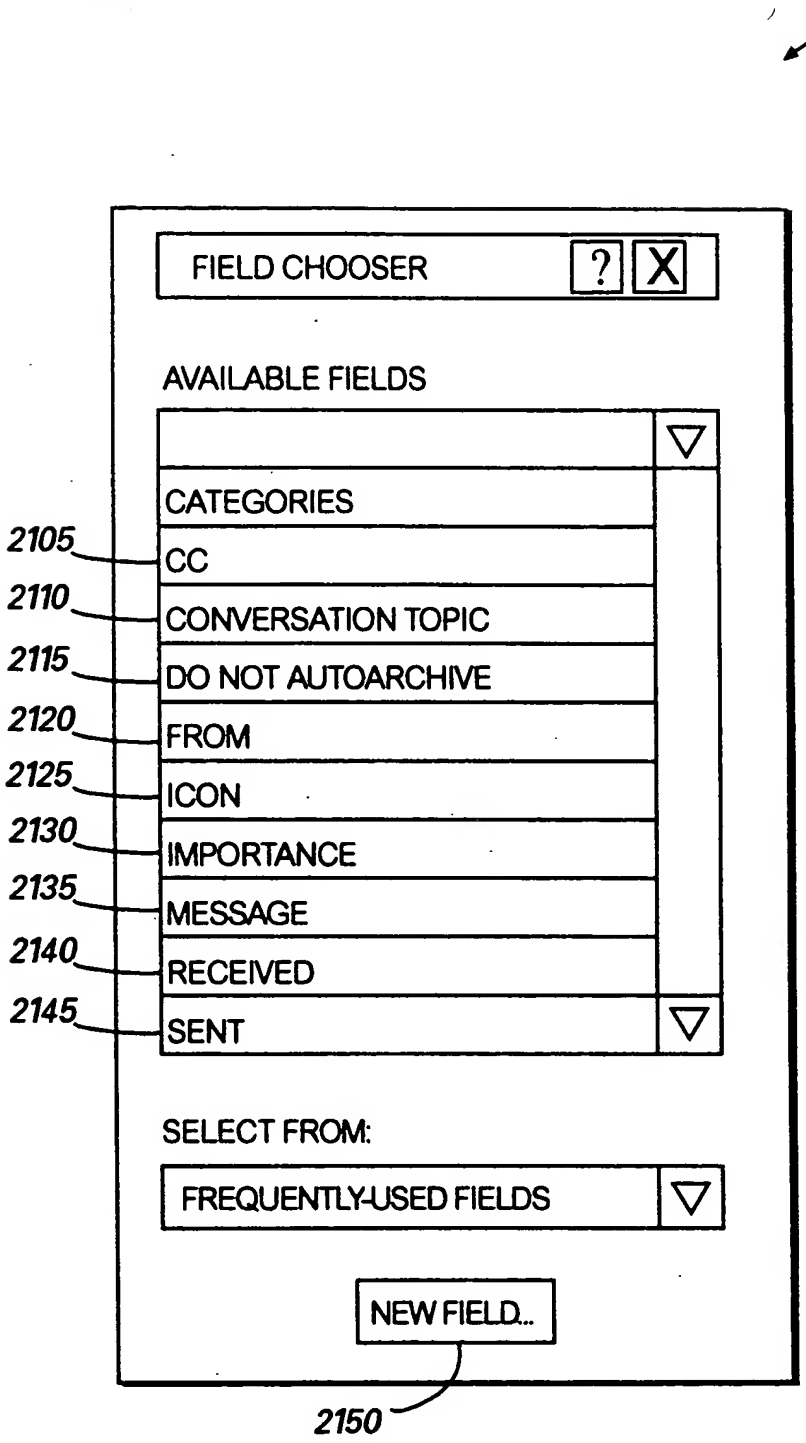

2100
FIELD CHOOSER
?
X
AVAILABLE FIELDS
CATEGORIES
CC
CONVERSATION TOPIC
DO NOT AUTOARCHIVE
FROM
ICON
IMPORTANCE
MESSAGE
RECEIVED
SENT
2105
2110
2115
2120
2125
2130
2135
2140
2145
SELECT FROM:
FREQUENTLY-USED FIELDS
NEW FIELD...
2150

FIG.21

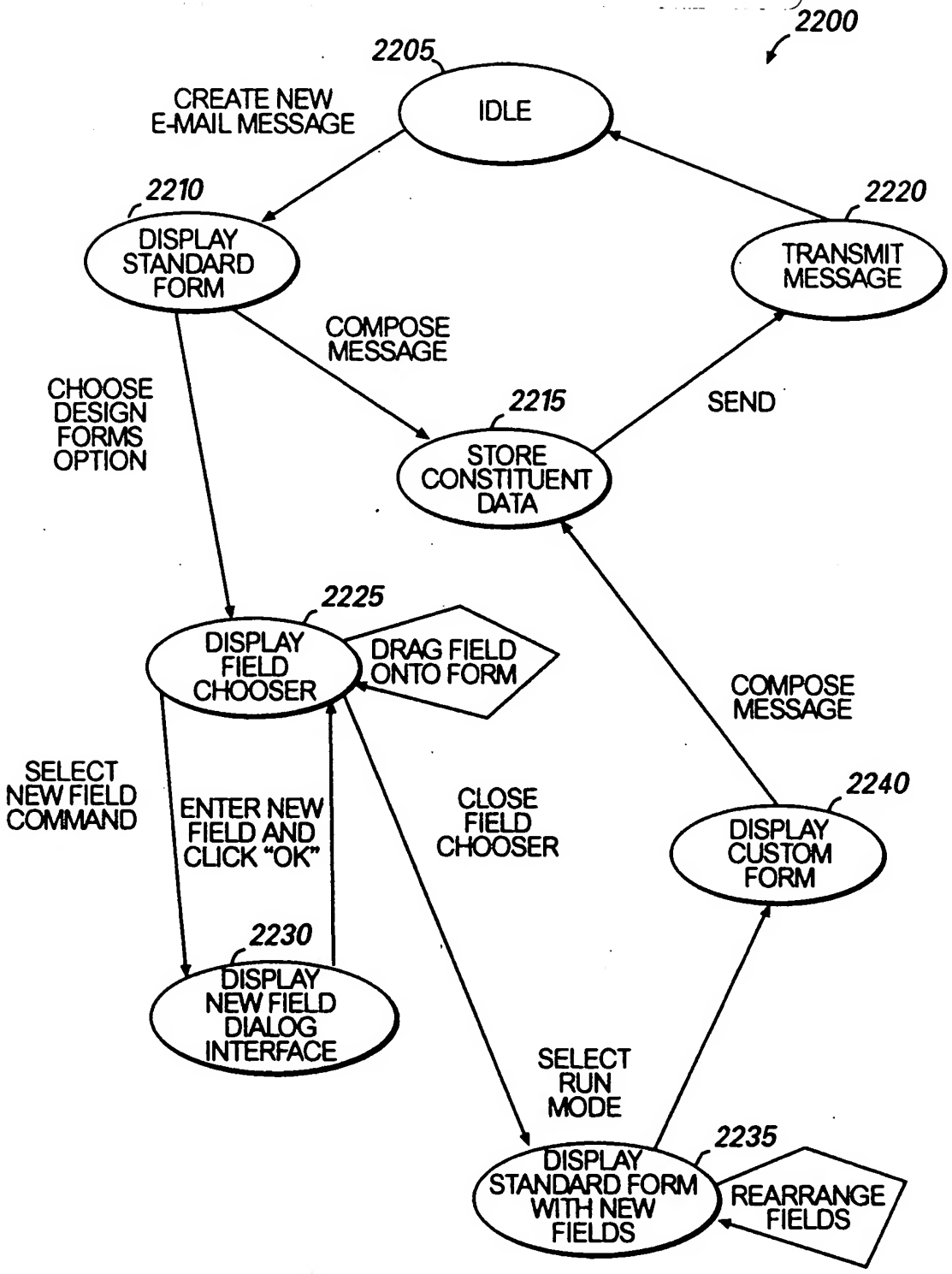

2200
2205
IDLE
CREATE NEW E-MAIL MESSAGE
2210
DISPLAY STANDARD FORM
2220
TRANSMIT MESSAGE
COMPOSE MESSAGE
CHOOSE DESIGN FORMS OPTION
2215
STORE CONSTITUENT DATA
SEND
2225
DISPLAY FIELD CHOOSER
DRAG FIELD ONTO FORM
COMPOSE MESSAGE
SELECT NEW FIELD COMMAND
ENTER NEW FIELD AND CLICK "OK"
CLOSE FIELD CHOOSER
2240
DISPLAY CUSTOM FORM
2230
DISPLAY NEW FIELD DIALOG INTERFACE
SELECT RUN MODE
2235
DISPLAY STANDARD FORM WITH NEW FIELDS
REARRANGE FIELDS

FIG.22

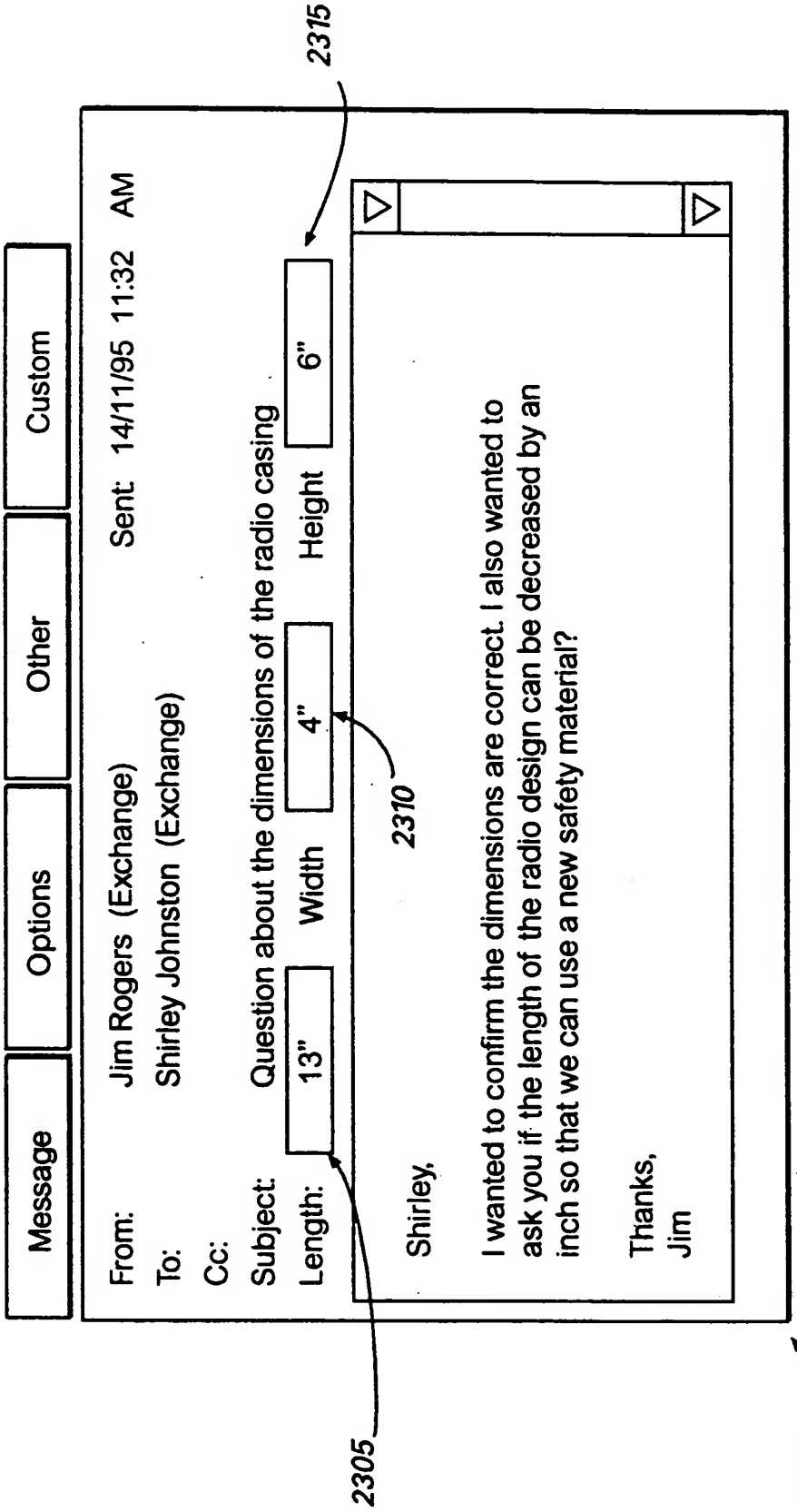

Message
Options
Other
Custom
From: Jim Rogers (Exchange) Sent: 14/11/95 11:32 AM
To: Shirley Johnston (Exchange)
Cc:
Subject: Question about the dimensions of the radio casing
Length: 13" Width 4" Height 6"
Shirley,
I wanted to confirm the dimensions are correct. I also wanted to ask you if the length of the radio design can be decreased by an inch so that we can use a new safety material?
Thanks,
Jim
2315
2310
2305
2300

FIG.23

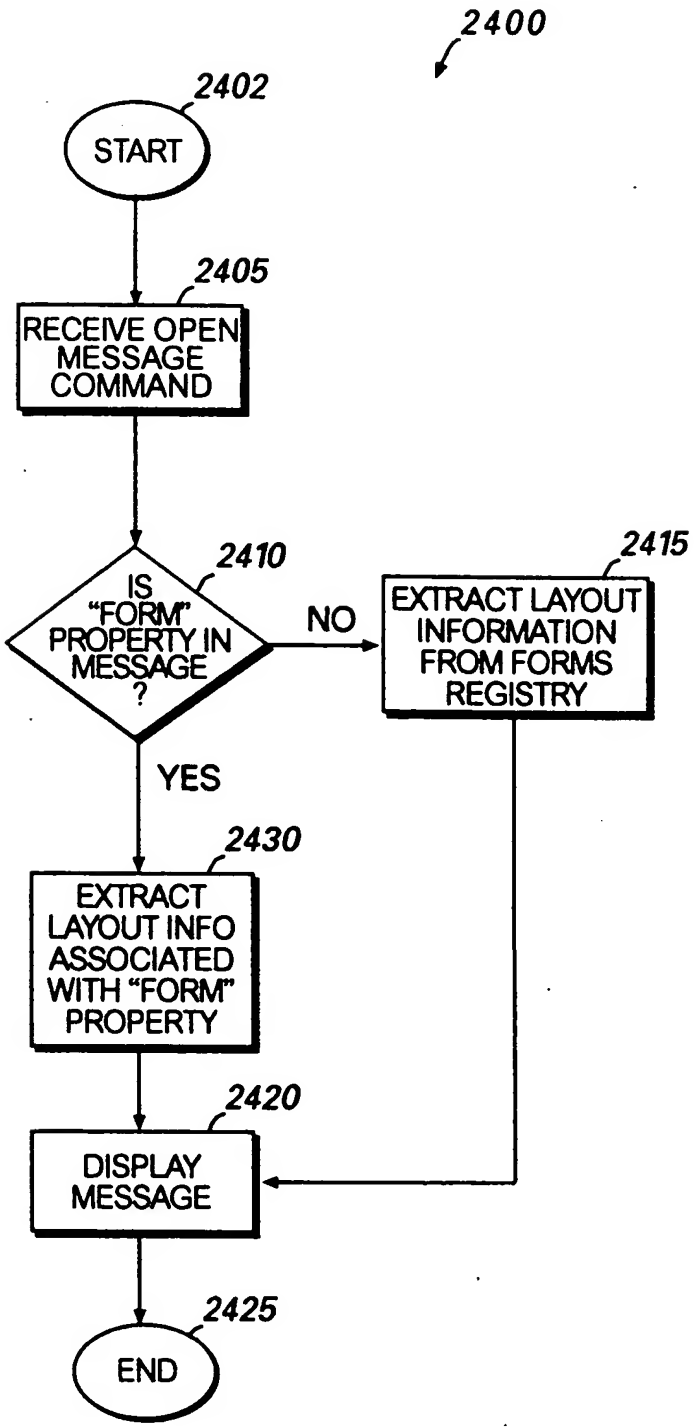

2400
2402
START
2405
RECEIVE OPEN MESSAGE COMMAND
2410
IS "FORM" PROPERTY IN MESSAGE ?
NO
2415
EXTRACT LAYOUT INFORMATION FROM FORMS REGISTRY
YES
2430
EXTRACT LAYOUT INFO ASSOCIATED WITH "FORM" PROPERTY
2420
DISPLAY MESSAGE
2425
END

FIG.24

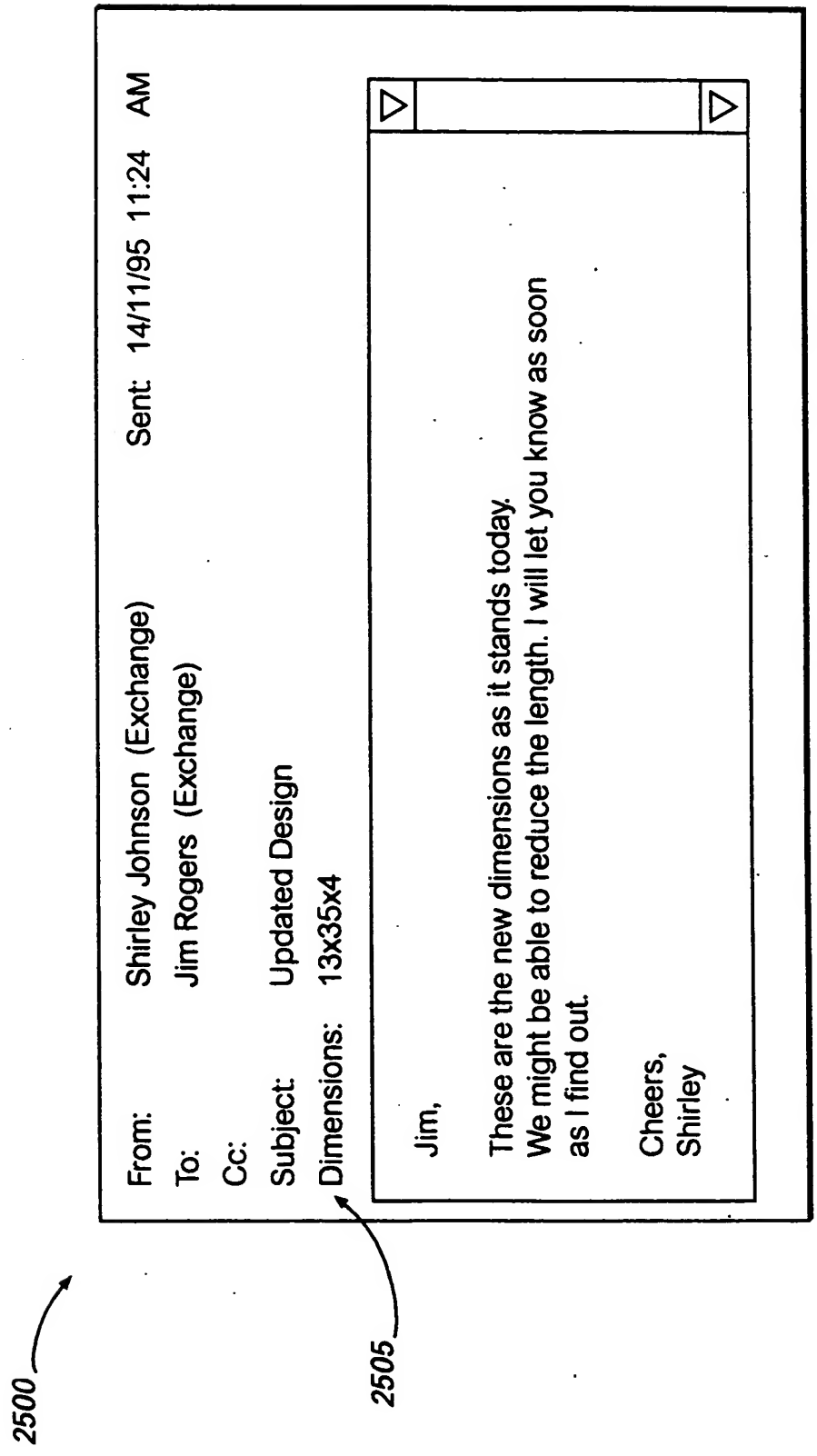

From: Shirley Johnson (Exchange) Sent: 14/11/95 11:24 AM
To: Jim Rogers (Exchange)
Cc:
Subject: Updated Design
Dimensions: 13x35x4
Jim,
These are the new dimensions as it stands today.
We might be able to reduce the length. I will let you know as soon as I find out.
Cheers,
Shirley
2500
2505

FIG.25

2600

ITEM

	PROPERTY TAG	VALUE
2605	SENDER	...
2610	RECIPIENT(S)	JOHN, JIM
2615	SUBJECT	...
2620	BODY	...
2625	MY VOTE	...
2630	AUTORESPONSE VERBS	CHEZ JEAN, MAMA ROSA'S, BIG BOB'S
2635	PR_REPORT_TAG	MONIKER
2640	JOHN	...
	JIM	...

2645

FIG.26

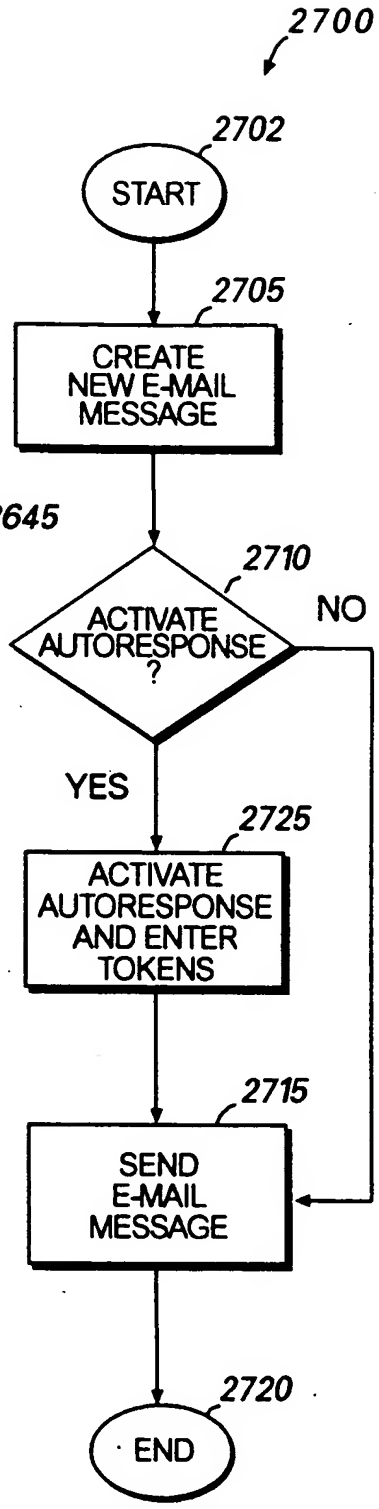


FIG.27

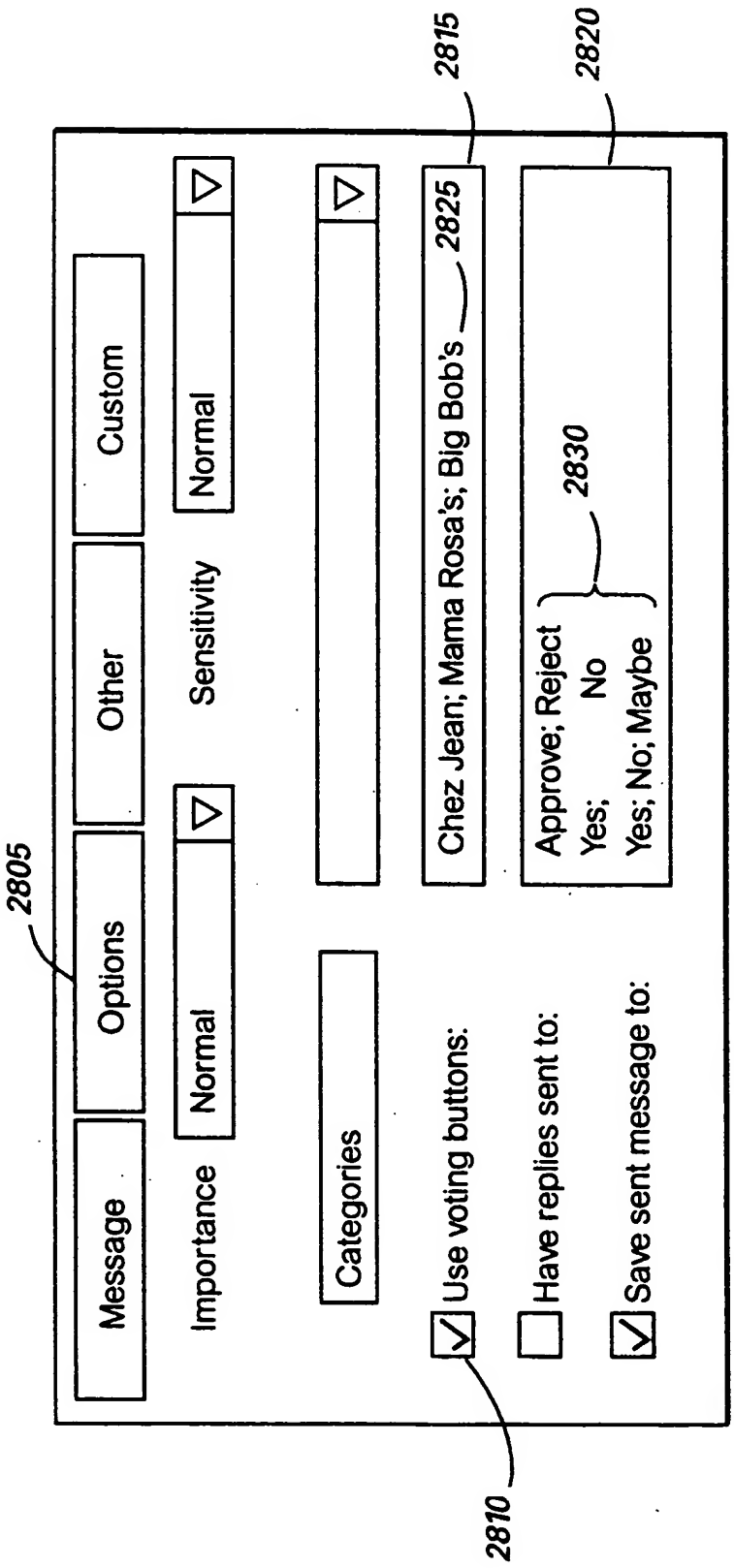

2805
Message
Options
Other
Custom
Importance
Normal
Sensitivity
Normal
Categories
Use voting buttons:
Have replies sent to:
Save sent message to:
2810
2815
Chez Jean; Mama Rosa's; Big Bob's
2825
2820
Approve; Reject
Yes; No
Yes; No; Maybe
2830

FIG.28

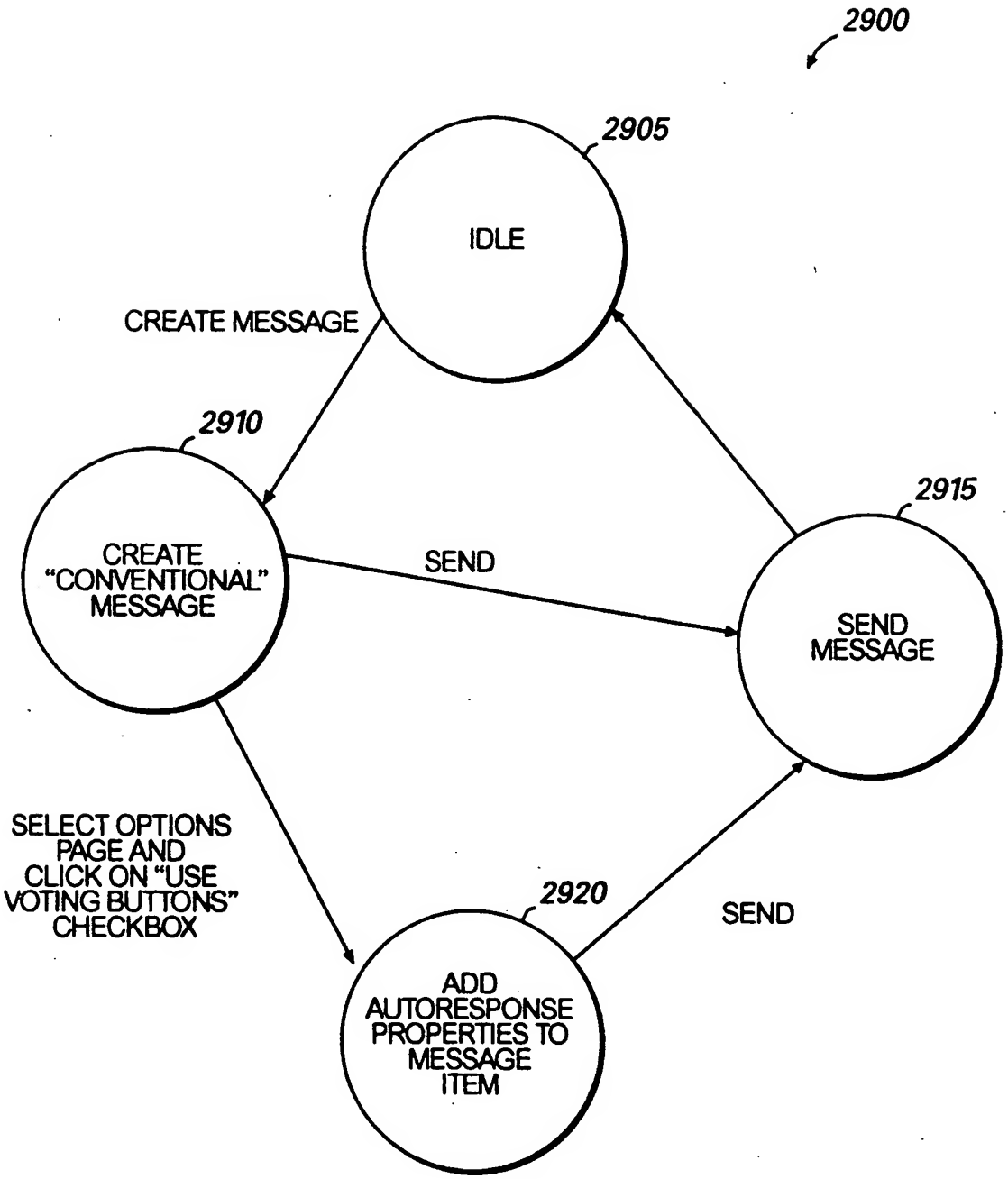

2900
2905
IDLE
CREATE MESSAGE
2910
CREATE "CONVENTIONAL" MESSAGE
SEND
2915
SEND MESSAGE
SELECT OPTIONS PAGE AND CLICK ON "USE VOTING BUTTONS" CHECKBOX
2920
ADD AUTORESPONSE PROPERTIES TO MESSAGE ITEM
SEND

FIG.29

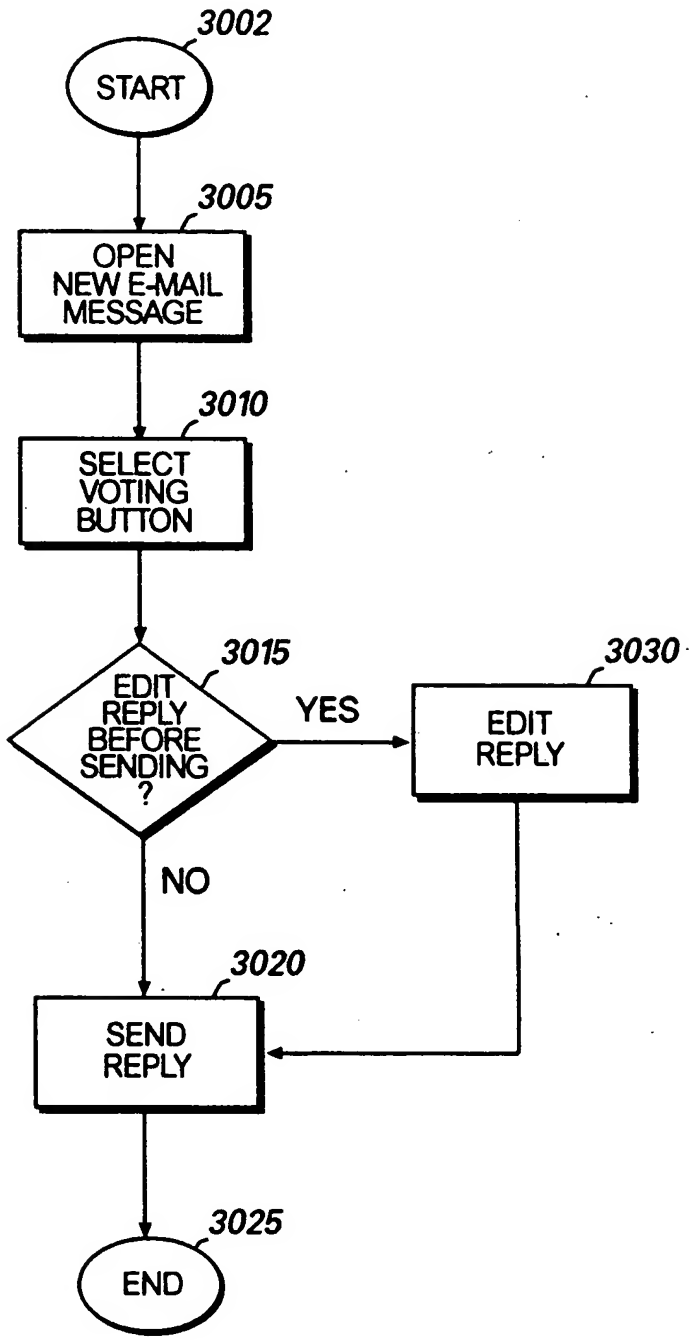

3002
START
3005
OPEN NEW E-MAIL MESSAGE
3010
SELECT VOTING BUTTON
3015
EDIT REPLY BEFORE SENDING ?
YES
3030
EDIT REPLY
NO
3020
SEND REPLY
3025
END

FIG.30

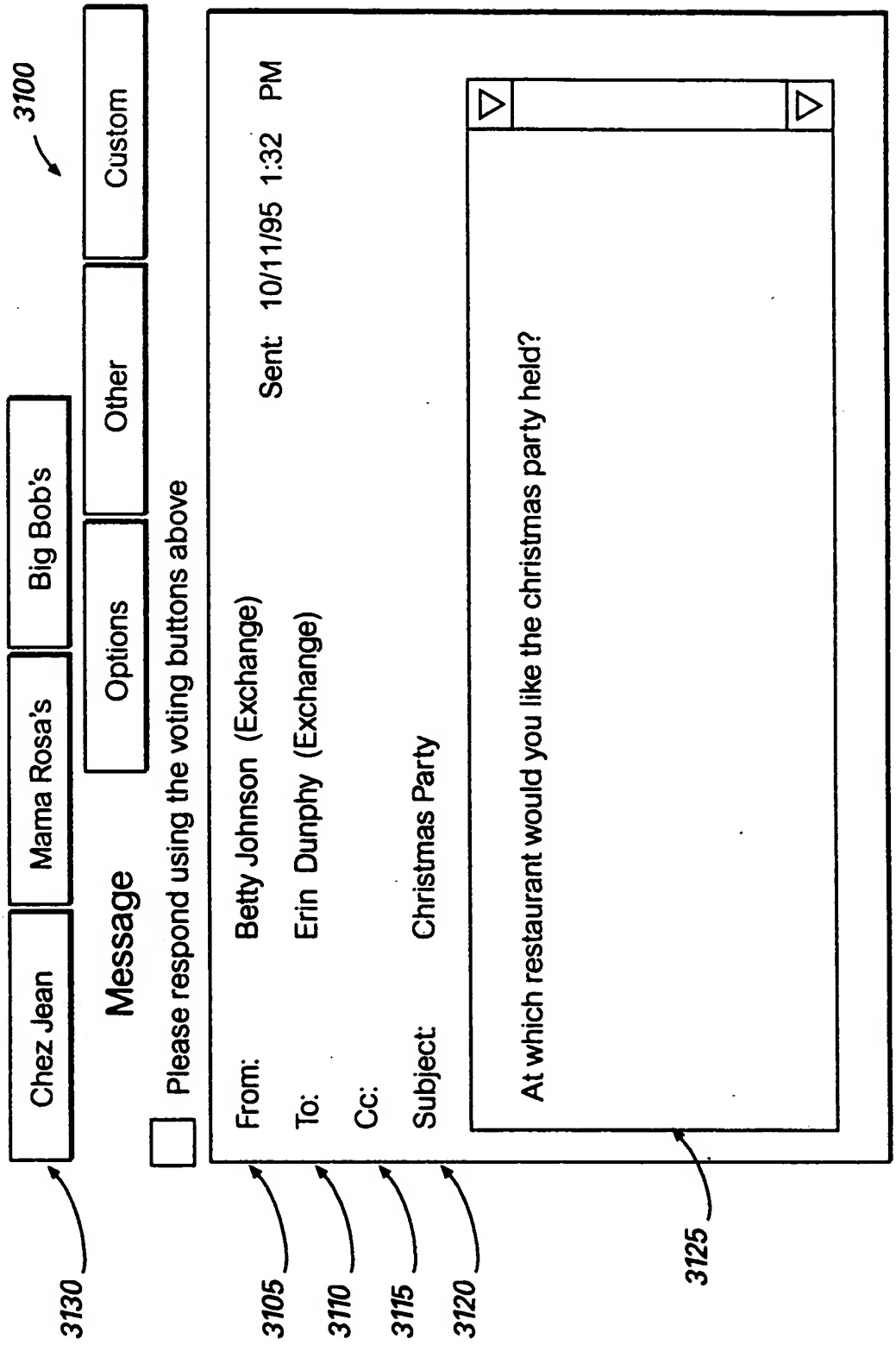

3100
Chez Jean
Mama Rosa's
Big Bob's
Options
Other
Custom
Message
Please respond using the voting buttons above
From: Betty Johnson (Exchange)
Sent: 10/11/95 1:32 PM
To: Erin Dunphy (Exchange)
Cc:
Subject: Christmas Party
At which restaurant would you like the christmas party held?
3130
3105
3110
3115
3120
3125

FIG.31

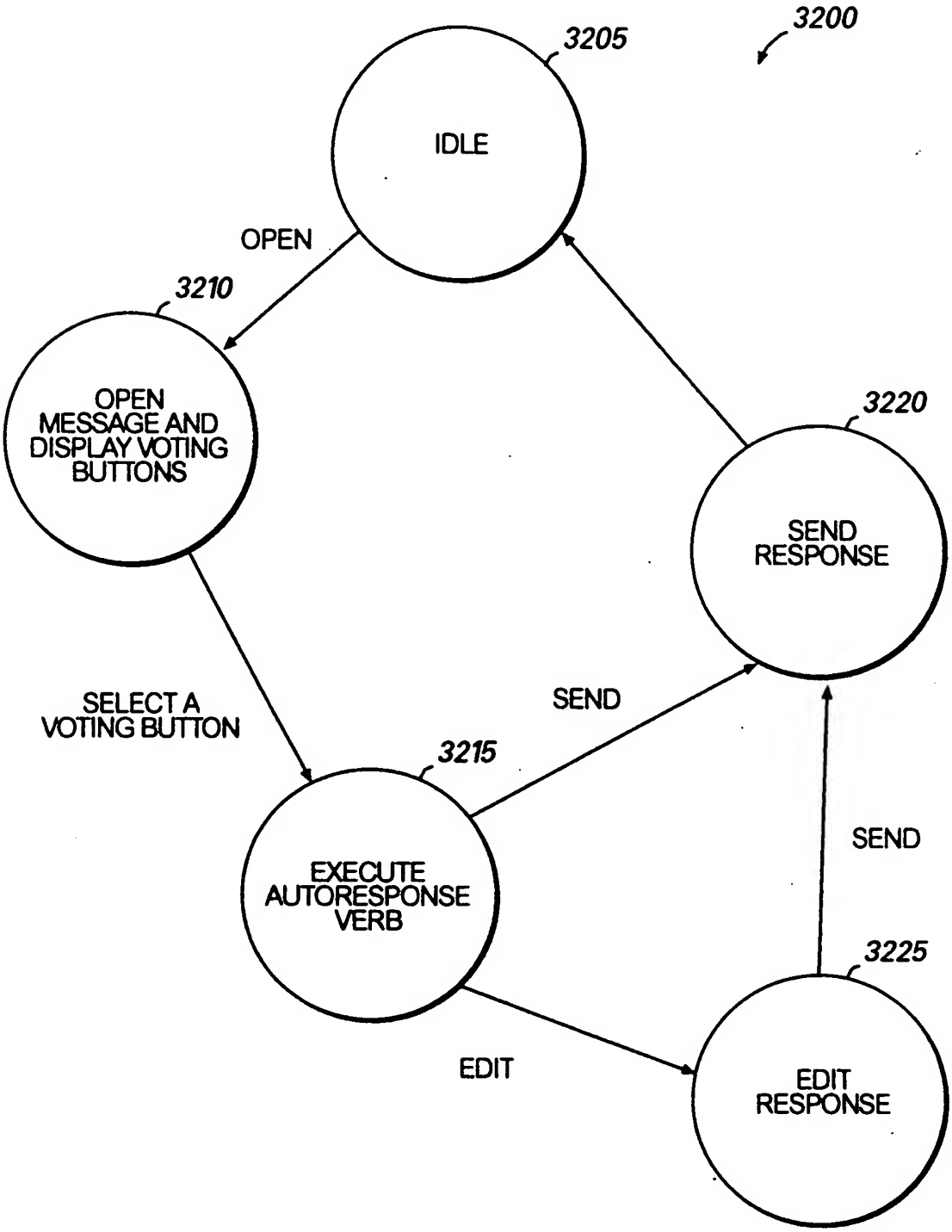

3200
3205
IDLE
OPEN
3210
OPEN MESSAGE AND DISPLAY VOTING BUTTONS
3220
SEND RESPONSE
SELECT A VOTING BUTTON
SEND
3215
EXECUTE AUTORESPONSE VERB
SEND
3225
EDIT
EDIT RESPONSE

FIG.32

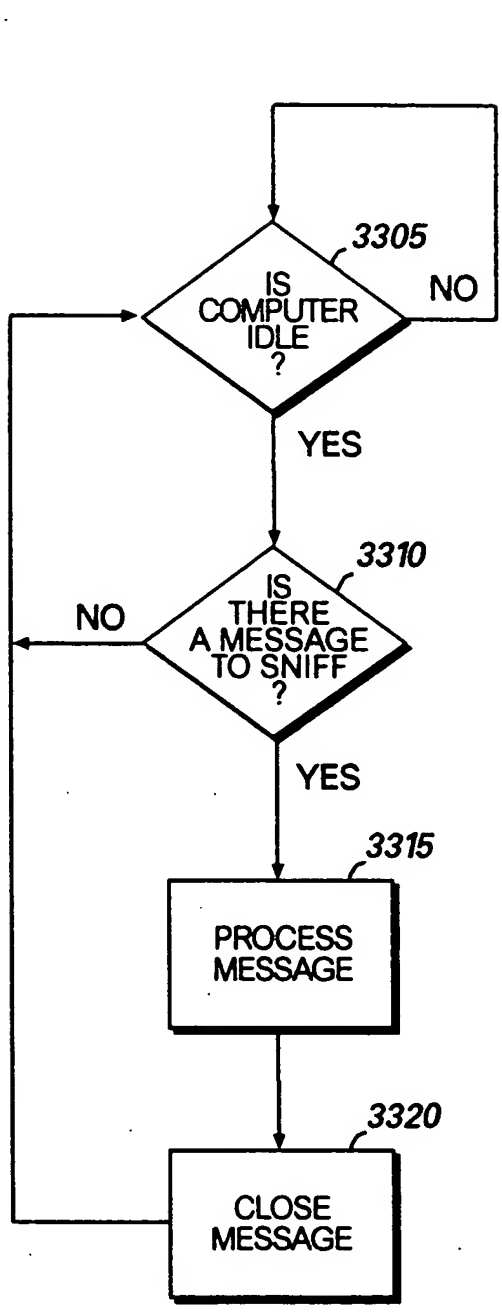

3300
3305
IS COMPUTER IDLE ?
NO
YES
3310
IS THERE A MESSAGE TO SNIFF ?
NO
YES
3315
PROCESS MESSAGE
3320
CLOSE MESSAGE

FIG.33

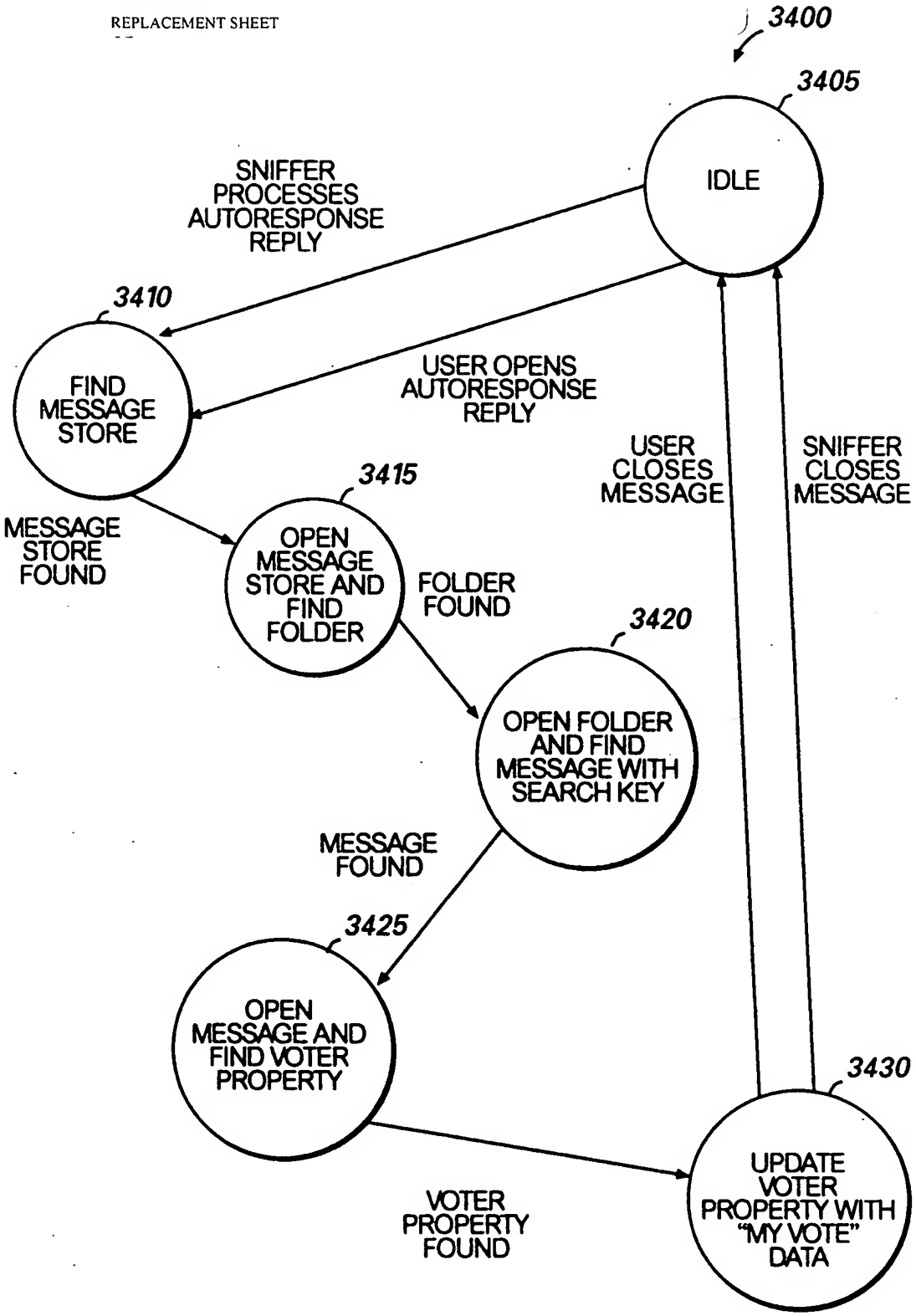
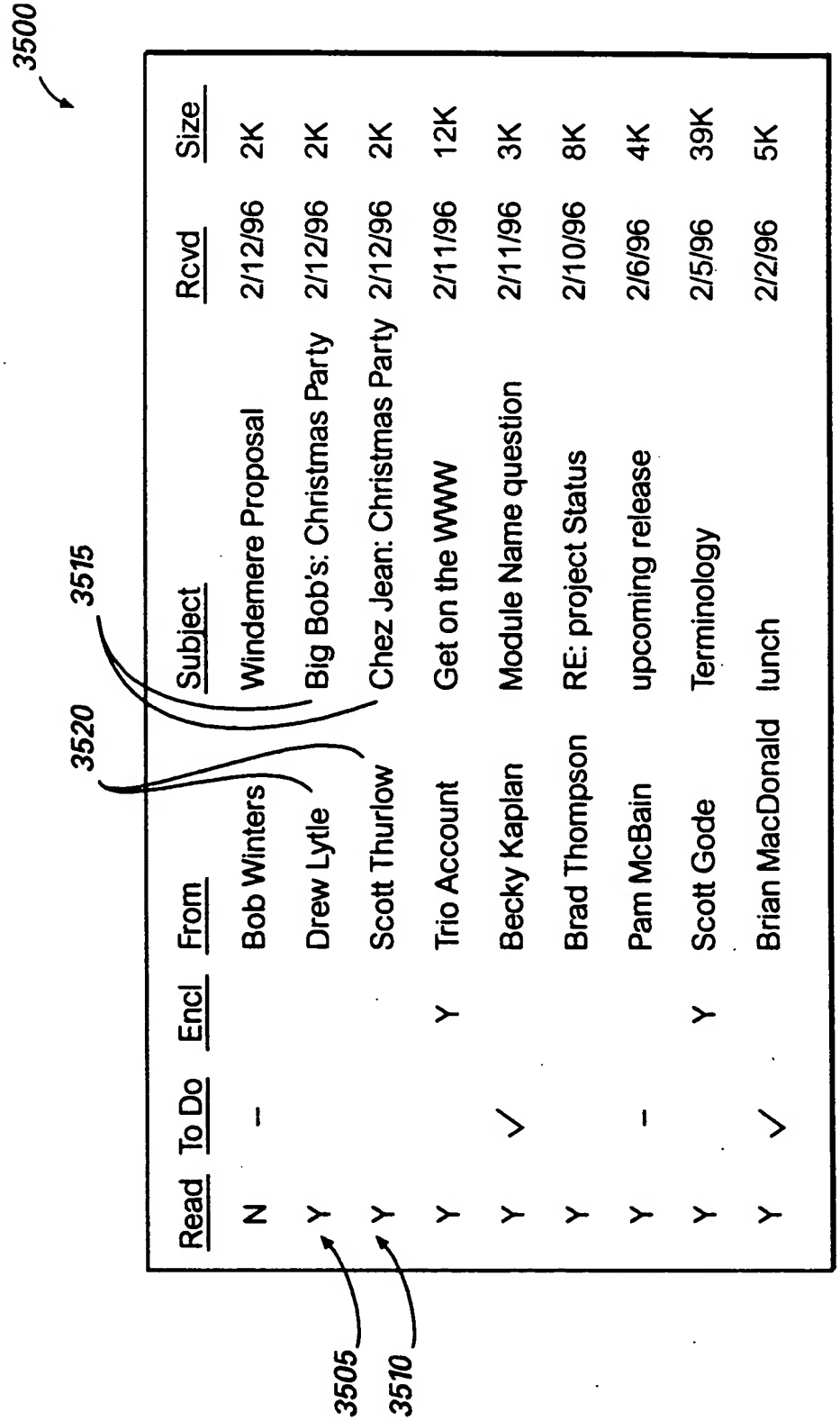

3400
3405
IDLE
SNIFFER PROCESSES AUTORESPONSE REPLY
3410
FIND MESSAGE STORE
USER OPENS AUTORESPONSE REPLY
USER CLOSES MESSAGE
SNIFFER CLOSES MESSAGE
3415
MESSAGE STORE FOUND
OPEN MESSAGE STORE AND FIND FOLDER
FOLDER FOUND
3420
OPEN FOLDER AND FIND MESSAGE WITH SEARCH KEY
MESSAGE FOUND
3425
OPEN MESSAGE AND FIND VOTER PROPERTY
3430
UPDATE VOTER PROPERTY WITH "MY VOTE" DATA
VOTER PROPERTY FOUND

FIG.34


3500
3515
3520
3505
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Read
To Do
Encl
From
Subject
Rcvd
Size
N – Bob Winters Windemere Proposal 2/12/96 2K
Y Drew Lytle Big Bob's: Christmas Party 2/12/96 2K
Y Scott Thurlow Chez Jean: Christmas Party 2/12/96 2K
Y Y Trio Account Get on the WWW 2/11/96 12K
Y ✓ Becky Kaplan Module Name question 2/11/96 3K
Y Brad Thompson RE: project Status 2/10/96 8K
Y – Pam McBain upcoming release 2/6/96 4K
Y Y Scott Gode Terminology 2/5/96 39K
Y ✓ Brian MacDonald lunch 2/2/96 5K

FIG.35

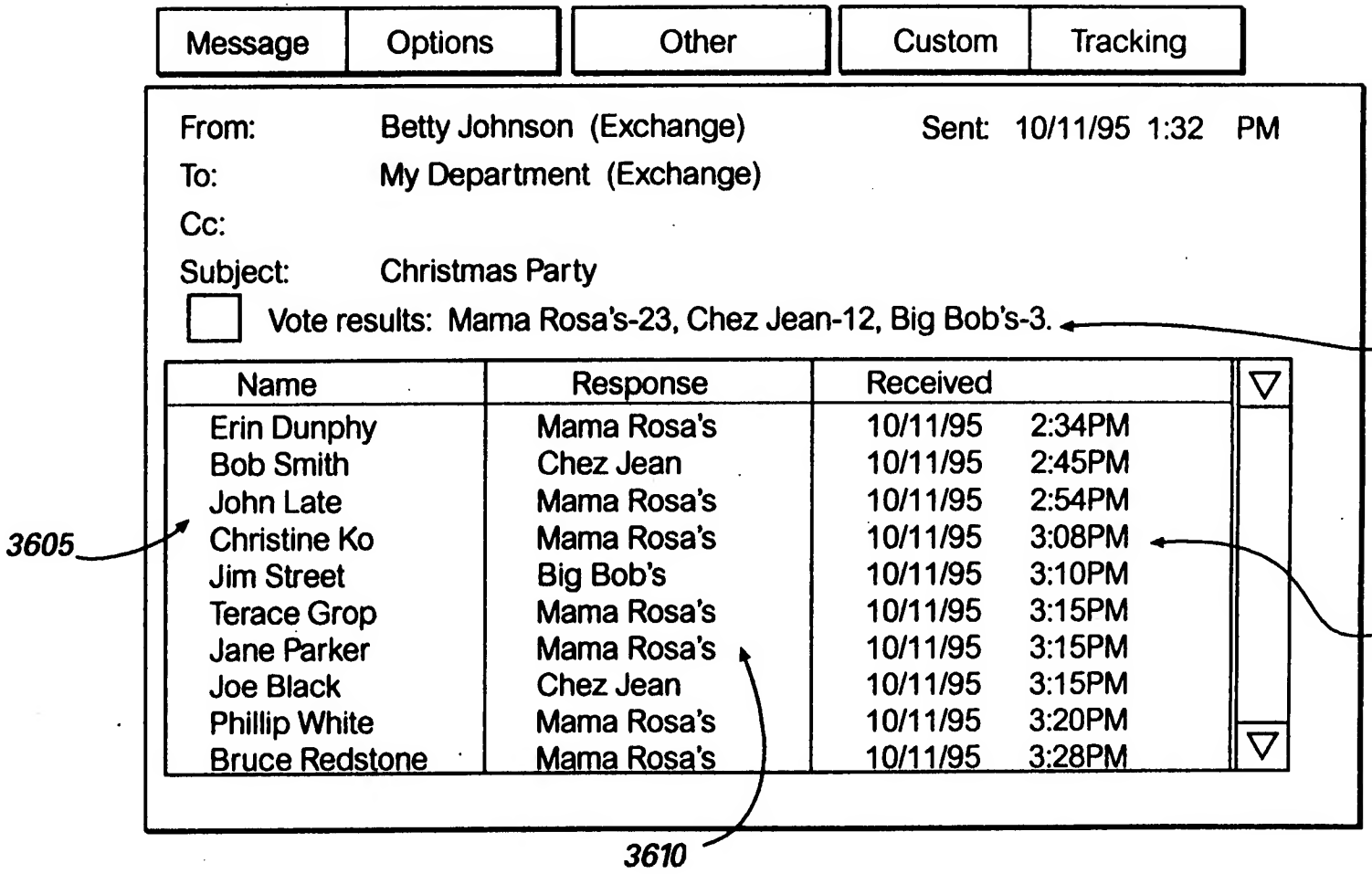

FIG.36

Inventor: Andrew G. Carlson
Docket No.: 60001.0109usc2/MS37932.5
Title: METHOD FOR AUTOMATICALLY IMPLEMENTING SPECIAL FORMS IN AN E-MAIL SYSTEM
Serial No.: 10/084,589
Sheet 29 of 29
REPLACEMENT SHEET